

TANK REMOVAL AND SAMPLING REPORT

36 Winchester Drive

Atherton, California

December 22, 2004

E₂C, Inc. Project Number 2398SC01

Prepared For

Mr. Loring C. Lynch and Ms. Holly A. Lynch

36 Winchester Drive

Atherton, California 95112

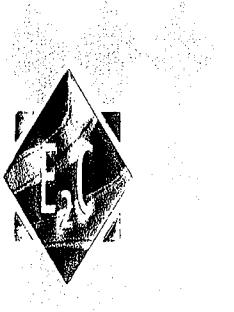
Prepared By

E₂C, Inc.

382 Martin Avenue

Atherton, California 95050-3112

408.327.5700



December 22, 2004
Project Number 2398SC01
Via US Mail

Mr. Loring C. Lynch and Ms. Holly A. Lynch
36 Winchester Drive
Atherton, California 95112

Subject: TANK REMOVAL AND SAMPLING REPORT
36 Winchester Drive
Atherton, California

Dear Mr. & Ms. Lynch:

E₂C, Inc. is pleased to present the accompanying tank removal and sampling report for the subject Site.

E₂C, Inc. appreciates the opportunity to have been of service. Should you have any questions or require additional information or services please call us at 408.327.5700.

Sincerely,
E₂C, Inc.


Forrest Cook *For*
Project Manager


Sako K. Noravian, MSSE, PE, REA
Principal

Cc: Mr. Arnie Montemagni
Environmental Health Services Division
San Mateo County Environmental Health Agency
455 County Center
Redwood City, CA 94063



E₂C INC
ENVIRONMENTAL / ENGINEERING CONSULTANTS
Since 1970

382 Martin Avenue, Santa Clara, CA 95050-3112 Tel: 408.327.5700 Fax: 408.327.5707

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1.0 INTRODUCTION

This report presents the results of the excavation and removal of one approximately 750-gallon underground storage tank (UST) and subsequent soil sampling at 36 Winchester Drive in the City of Atherton, California (hereinafter referred to as the Site). These operations were performed in accordance with all relevant State of California regulations and local ordinances.

1.1 Scope of Services

The Scope of Services performed included the following:

- Remove the exposed UST from the ground under the direction of an Inspector from the San Mateo County Health Services Agency.
- Collect soil samples from the bottom of the excavation and from the stockpiles of excavated soil, as directed by the Hazardous Materials Inspector.
- Analyze each of the samples collected for the presence of TPH Gasoline (TPHg), TPH Diesel (TPHd), Total Oil and Grease (TOG), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), as instructed by the Hazardous Materials Inspector.
- Transport the tank to an appropriate disposal facility by an appropriately licensed hauler under a hazardous waste manifest.
- Prepare a formal tank removal report that presents a description of the field activities, including analytical data and all disposal manifests. This report will be presented to the San Mateo County Health Services as part of the permit requirements.

1.2 Site Location and Description

The Site is identified as at 36 Winchester Drive in Atherton, California. The property is developed with single family residential building. The 750-gallon UST was removed from the ground directly adjacent to the northern edge of the Site building. A Site Location Map (Figure 1) and Site Plan (Figure 2) are presented in the Figures section of this report.

1.3 Regional Geology and Soil Conditions

The site is located on the western side of the San Francisco Bay depression approximately 3.0 to 3.5 miles west to southwest of the San Francisco Bay. The Bay depression is a major structural feature in northwestern California that is located between the Diablo Range and the Santa Cruz Mountains. The Bay depression was created by the downwarping of the San Andreas Rift Zone, near the western side of the depression, and the Hayward Fault along the eastern side (California Department of Water Resources, 1968).

The regional geology of the San Francisco Bay Area, in most low lying areas of urban development surrounding the Bay rim, is defined by the United States Geological Survey as Holocene alluvial fan deposits. Regional groundwater flow within the shallow water bearing zones beneath these areas is generally towards the San Francisco Bay except in site specific areas where it may be influenced by local phenomena such as groundwater extraction or surface streams. In some low lying areas along the Bay rim, the groundwater gradient is essentially "flat", often resulting in great variability and/or significant seasonal changes in site specific groundwater flow directions. Soils in the area generally and primarily consist of silt and clay with relatively thin interbedded layers of more transmissive sands and/or gravels where groundwater is found.

Alluvial deposits of late Pleistocene Age (10,000 to 70 million years before present) underlie the site area. The alluvium was derived mainly from sedimentary rock that was deposited by flowing water from active stream channels, on terraces and developing alluvial fans. These late Pleistocene deposits are locally very thick, and generally consist of weakly consolidated, slightly weathered, poorly sorted, irregular, interbedded clay, silt, sand and gravel (Holley et al., 1979).

1.4 Hydrologic Conditions

Site-specific groundwater information was not available for the Site, this information can only be accurately determined by the installation of at least three on-Site groundwater monitoring wells. Groundwater in the area of the Site can, however, be estimated to be first encountered at approximately 25 to 35-feet below ground surface (bgs) and flow in an easterly direction towards the San Francisco Bay.

2.0 TANK REMOVAL OPERATIONS

Mr. Forrest Cook of E₂C was at the Site on December 10, 2004 to collect soil samples and oversee the tank removal activities. When Mr. Cook arrived, the UST had already been exposed and dry ice had been added to the empty tanks, by HSR, Inc. of San Jose, California. According to HSR, approximately one foot of product (i.e. about 150-gallons) was still in the tank when it was exposed. This product was pumped out of the tank and hauled off-Site by HSR prior to exposing the tank. Under the supervision of Mr. Arnie Montemagni, Hazardous Materials Specialist from the San Mateo County Health Services Agency (SMCHSA), the tank was removed from the open excavation and loaded onto a flatbed truck. The tank appeared to be in good condition and no obvious holes were noted in the bottom of the tank. The tank was hauled from the Site under Uniform Hazardous Waste Manifest (Appendix A) to Ecology Control Industries in Richmond, California. The tank removal permit is presented in Appendix B.

2.1 Soil and Water Sampling

After the tank was removed from the pit, a puddle of oil was observed in the bottom of the excavation. Under the direction of Mr. Cook approximately 2 feet of soil were overexcavated from the bottom of the pit. This overexcavated soil was placed in a separate stockpile from the overburden soil that was previously excavated to expose the tank. Then under the direction of Mr. Montemagni one soil sample (S-1) was collected

from the native soils below the overexcavated area. Also one soil sample was collected from each of the two stockpiles. Sample Number Stock-1 was collected from the stock pile that consisted of the overexcavated soils below the tank, and Sample Number Stock-2 was collected from the larger stock pile of the overburden soils. Soil sample locations are shown on Figure 2.

Each of soil samples were collected in clean brass liners sealed with Teflon, capped, labeled, and immediately placed in an iced cooler. The samples were kept in the cooler during transportation to Entech Analytical Laboratories (State Certification #2346). Please refer to Appendix C for the laboratory data sheets and Chain of Custody Documents.

Following the removal activities the tank pit was backfilled with the overburden soil as a safety precaution and to prevent a cave in.

2.2 Sample Analyses

Mr. Montemagni requested that each of the collected samples be analyzed for the following constituents:

- Total Petroleum Hydrocarbons as diesel (TPHd) by EPA Test Method 8015
- Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Test Method 8015
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Test Method 8260
- Total Oil and Grease (TOG) by SM 5520C

A summary of the analytical results are presented in the following table. Complete laboratory data sheets and chain of custody documents are presented in Appendix C.

TABLE I: Soil Sample Analytical Results

Analyte	Sample ID		
	S-1	Stock-1	Stock-2
TPHG ($\mu\text{g}/\text{Kg}$)	4100*	130,000*	ND<50
TPHD (mg/Kg)	9600	9200	5.5
TOG (mg/Kg)	5900	5700	ND<25
Benzene ($\mu\text{g}/\text{Kg}$)	ND<25	ND<1000	ND<5
Toluene($\mu\text{g}/\text{Kg}$)	<25	ND<1000	ND<5
Ethylbenzene ($\mu\text{g}/\text{Kg}$)	<25	ND<1000	ND<5
Xylenes ($\mu\text{g}/\text{Kg}$)	69	ND<2000	ND<10

* Denotes not a gasoline pattern; volatile fraction of Diesel calculated as gasoline

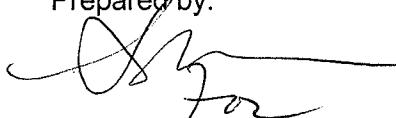
3.0 CONCLUSIONS AND RECOMMENDATIONS

As shown in Table I, high concentrations of TPHG and TPHD were detected in the soil sample (S-1) collected from two-feet below the former underground tank. However, as denoted on the laboratory report the detected TPHG concentrations do not denote a gasoline pattern. Rather this concentration is a detected fraction of Diesel calculated as gasoline. These high concentrations matched with the observed puddle of diesel below the tank, indicate that the UST did in fact leak. Based on our experience, it is likely that this case will now be passed on to the San Mateo County Health Services Groundwater Protection Program. Furthermore, it is likely that further investigations will be required at the Site by the Groundwater Protection Agency. If, indeed, further action is required a directive letter will be issued by the Groundwater Protection Agency instructed the responsible party as to what actions are required.

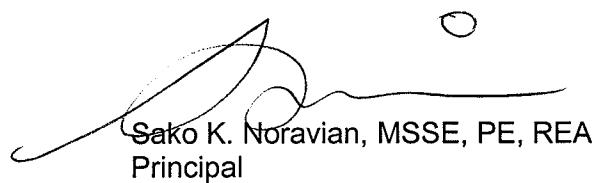
4.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

The conclusions of this report are based solely on the Scope of Services outlined and the referenced sources of information. Any additional information that becomes available concerning this report should be submitted to E₂C, Inc. so that our conclusions may be reviewed and modified, if necessary. This report was prepared in December of 2004.

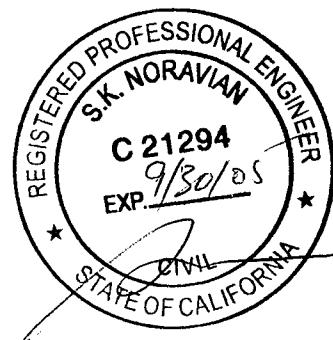
Prepared by:



Forrest Cook
Project Manager



Sako K. Noravian, MSSE, PE, REA
Principal



5.0 REFERENCES

- Atwater, T. 1970. Implications of Plate Tectonics for Cenozoic Tectonic Evolution of Western North America, Geologic Society of AmeriCalifornia Bulletin 1981, pp. 3513-3535.
- Helley, E.J. and Lajoie, K.R. 1979. Flatland Deposits of the San Francisco Bay Region, California, USGS Professional Paper 943.
- United States Department of Agriculture, Soil Conservation Service. 1981. Soil Survey of Atherton County, California, Western Part.
- United States Geological Survey. 1953, photorevised 1980. San Mateo Quadrangle, California, 7.5-Minute Series, Topographic Map.

FIGURES

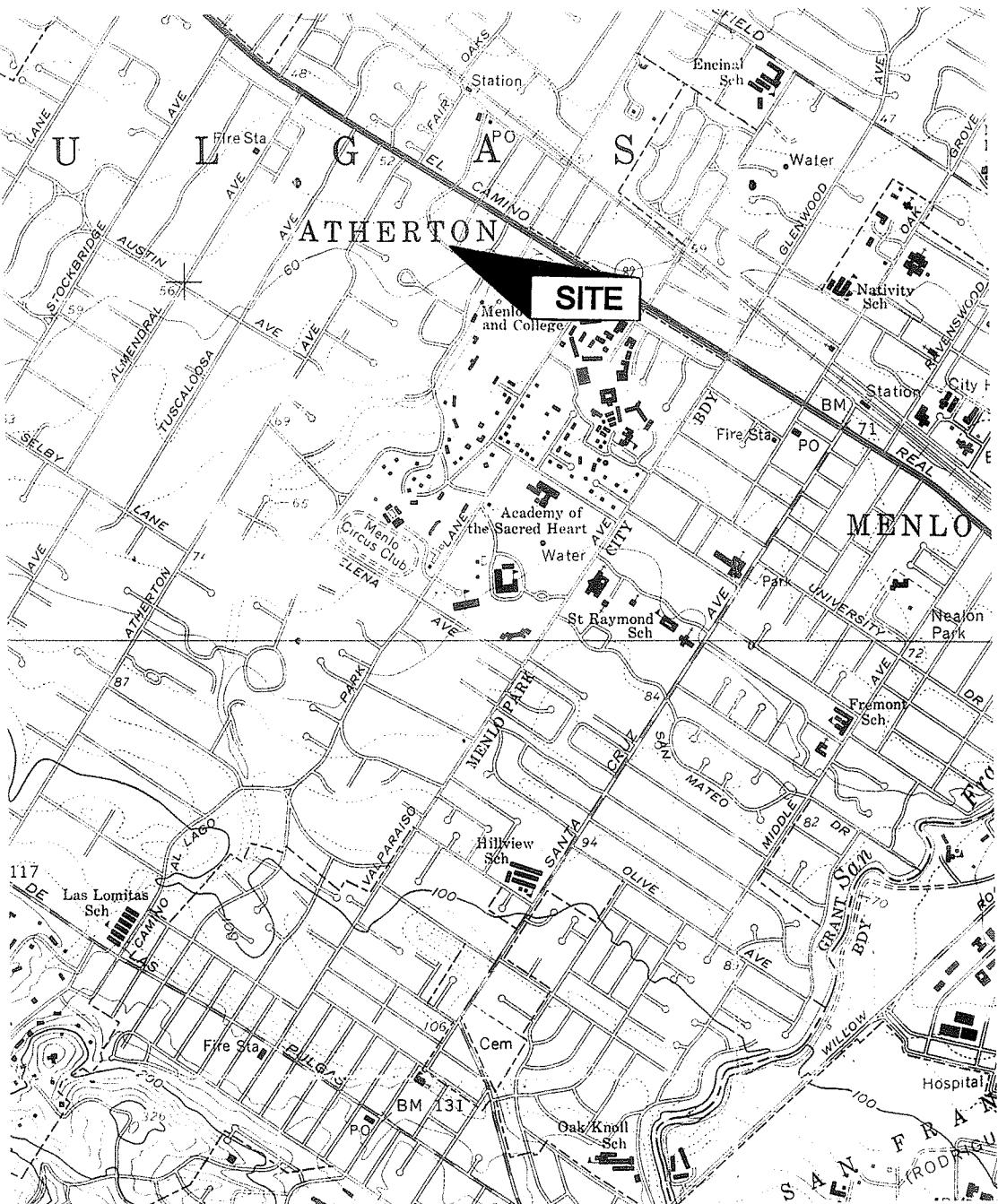


FIGURE 1 – SITE LOCATION MAP

Address: 36 Winchester Drive	Client Name: Lynch
City/State: Atherton, CA	E ₂ C Project Number: 2398C01
 ENVIRONMENTAL/ENGINEERING CONSULTANTS 382 MARTIN AVENUE SANTA CLARA, CALIFORNIA 95050-3112 TEL: 408.327.5700 FAX: 408.327-5707	Source: San Jose West, CA Quad 1961 (photorevised 1980) Scale: 1:24,000



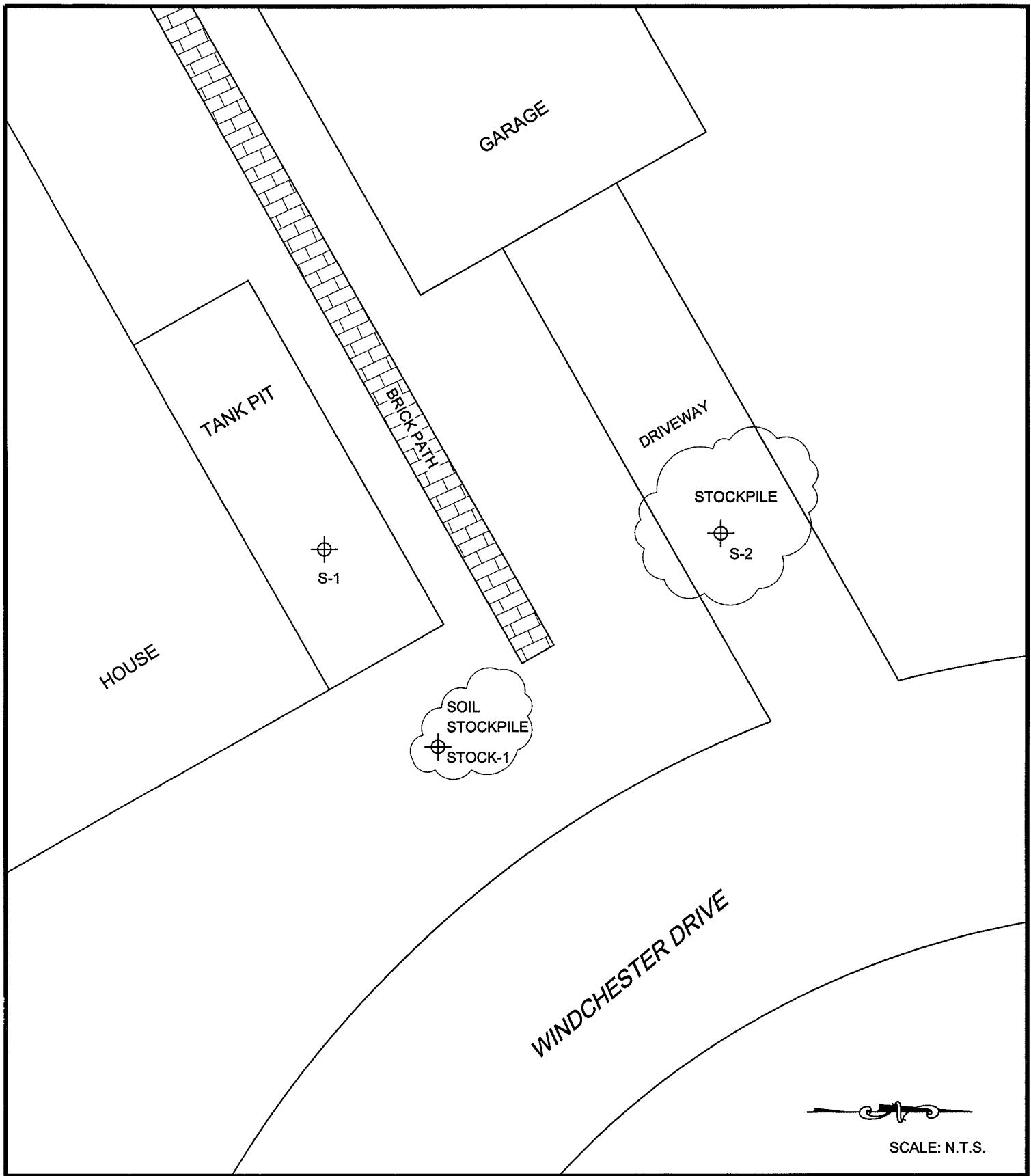
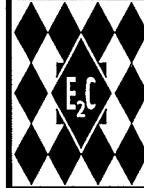


FIGURE 2 - SITE MAP



ENVIRONMENTAL / ENGINEERING CONSULTANTS
382 MARTIN AVENUE
SANTA CLARA, CALIFORNIA 95050-3112
TEL: 408.327.5700 FAX: 408.327.5707

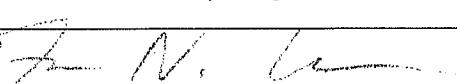
36 WINDCHESTER DRIVE
ATHERTON, CALIFORNIA

FILENAME: 2342SC01
DATE: JULY 2004
REVISION:
DRAWN: JL

JOB NUMBER:
2342SC01

APPENDIX A

UNIFORM HAZARDOUS WASTE MANIFEST

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		A. State Manifest Document Number			24087071	
4. Generator's Phone ()		B. State Generator's ID				
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID [Reserved.]			
EcoTech Control Solutions		CAD982030173	D. Transporter's Phone (510) 235-1393			
7. Transporter 2 Company Name		8. US EPA ID Number	E. State Transporter's ID [Reserved.]			
205 Point Supply		CA 8001 CAD009486392	F. Transporter's Phone			
9. Designated Facility Name and Site Address EcoTech Control Solutions 205 Point Supply		10. US EPA ID Number	G. State Facility's ID			
			H. Facility's Phone 510-235-1393			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number	
HAZARDOUS WASTE, SOLID WASTES CONTAINING STORAG TANKS		001	TP	P	State 50 EPA/Other NONE	
b.					State EPA/Other	
c.					State EPA/Other	
d.					State EPA/Other	
J. Additional Descriptions for Materials Listed Above TANKS EMPTY STORAGE TANKS 32190		K. Handling Codes for Wastes Listed Above a. b. c. d.				
TANKS HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY						
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate.						
24 Hour Emergency Contact ECI JOHN SZT 1565						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name JEFF COOK		Signature 		Month 12	Day 16	Year 014
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Jeff Cook		Signature 		Month 12	Day 16	Year 014
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month	Day	Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

APPENDIX B

UST REMOVAL PERMIT

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - FACILITY

(one page per site) Page 1 of 1

TYPE OF ACTION	<input type="checkbox"/> 1. NEW UST PERMIT	<input type="checkbox"/> 2. RENEWAL PERMIT	<input type="checkbox"/> 3. CHANGE OF INFORMATION <small>(specify change location only)</small>	<input type="checkbox"/> 4. AMENDED PERMIT	<input type="checkbox"/> 5. TEMPORARY SITE CLOSURE	<input type="checkbox"/> 6. PERMANENTLY CLOSED SITE	<input checked="" type="checkbox"/> 7. TANK REMOVED
----------------	--	--	--	--	--	---	---

403

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Also known as Facility Name or DBA - Doing Business As)	FACILITY ID#		CA 002683912				
Loring Lynch							
NEAREST CROSS STREET	401		FACILITY OWNER TYPE	4. LOCAL AGENCY/DISTRICT			
Flamingo Real			<input type="checkbox"/> 1. CORPORATION	<input type="checkbox"/> 5. COUNTY AGENCY*			
BUSINESS TYPE	402		<input type="checkbox"/> 2. INDIVIDUAL	<input type="checkbox"/> 6. STATE AGENCY*			
1. GAS STATION			<input type="checkbox"/> 3. PARTNERSHIP	<input type="checkbox"/> 7. FEDERAL AGENCY*			
2. DISTRIBUTOR			<input type="checkbox"/> 4. PROFESSION				
3. FARM			<input type="checkbox"/> 5. OTHER				
TOTAL NUMBER OF TANKS REMAINING AT SITE	403		If owner of UST is a public agency: name of supervisor of division, section or office which oversees the UST (This is the contact person for the tank records.)				
One			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			

404

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME	407		PHONE	408		
Loring Lynch			650 852-4156			
MAILING OR STREET ADDRESS	409					
36 Winchester Drive						
CITY	410	STATE	411	ZIP CODE	412	
Atherton		CA		94027		
PROPERTY OWNER TYPE	413		<input type="checkbox"/> 1. CORPORATION	<input checked="" type="checkbox"/> 2. INDIVIDUAL	<input type="checkbox"/> 4. LOCAL AGENCY/DISTRICT	<input type="checkbox"/> 6. STATE AGENCY
			<input type="checkbox"/> 3. PARTNERSHIP	<input type="checkbox"/> 5. COUNTY AGENCY	<input type="checkbox"/> 7. FEDERAL AGENCY	

413

III. TANK OWNER INFORMATION

TANK OWNER NAME	414		PHONE	415		
Loring Lynch			650 852-4156			
MAILING OR STREET ADDRESS	416					
36 Winchester Drive						
CITY	417	STATE	418	ZIP CODE	419	
Atherton		CA		94027		
TANK OWNER TYPE	420		<input type="checkbox"/> 1. CORPORATION	<input checked="" type="checkbox"/> 2. INDIVIDUAL	<input type="checkbox"/> 4. LOCAL AGENCY/DISTRICT	<input type="checkbox"/> 6. STATE AGENCY
			<input type="checkbox"/> 3. PARTNERSHIP	<input type="checkbox"/> 5. COUNTY AGENCY	<input type="checkbox"/> 7. FEDERAL AGENCY	

416

420

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44-			Call (916) 322-9669 if questions arise			421
----------------	--	--	--	--	--	-----

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(s)	<input type="checkbox"/> 1. SELF-INSURED	<input type="checkbox"/> 4. SURETY BOND	<input type="checkbox"/> 7. STATE FUND	<input type="checkbox"/> 10. LOCAL GOVT MECHANISM
	<input type="checkbox"/> 2. GUARANTEED	<input type="checkbox"/> 5. LETTER OF CREDIT	<input type="checkbox"/> 8. STATE FUND & CFO LETTER	<input type="checkbox"/> 99. OTHER:
	<input checked="" type="checkbox"/> 3. INSURANCE	<input type="checkbox"/> 6. EXEMPTION	<input type="checkbox"/> 9. STATE FUND & CD	

422

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailings. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.	<input type="checkbox"/> 1. FACILITY	<input checked="" type="checkbox"/> 2. PROPERTY OWNER	<input type="checkbox"/> 3. TANK OWNER	423
---	--------------------------------------	---	--	-----

423

VII. APPLICANT SIGNATURE

Certification - I certify that the information provided herein is true and accurate to the best of my knowledge.				
SIGNATURE OF APPLICANT	DATE		PHONE	424
Loring Lynch	11-9-04		650-852-4156	
NAME OF APPLICANT (Print)	TITLE OF APPLICANT			425
LORING LYNCH				
STATE UST FACILITY NUMBER (Leave blank if not applicable)	1998 UST OPERATOR/CERTIFICATE NUMBER (Leave blank if not applicable)			426

424

425

426

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - TANK PAGE 1

TANKS

(two pages per tank)

Page 1 of 1

TYPE OF ACTION		<input type="checkbox"/> 1 NEW SITE PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE
(Check one item only)					<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
		<input type="checkbox"/> 2 RENEWAL PERMIT	(1) 100% REUSE - RETURN TO USE (2) 100% REUSE - FOR OWN USE ONLY	(3) 100% REUSE - FOR OWN USE ONLY	<input type="checkbox"/> 8 TANK REMOVED

BUSINESS NAME (Name of Facility Name or DRA - Existing Business As)		FACILITY ID:			
---	--	--------------	--	--	--

Loring Lunc
36 Winchester Drive, Atherton

I. TANK DESCRIPTION (A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID: unknown	TANK MANUFACTURER: Unknown	43 COMPARTMENTALIZED TANK <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
DATE INSTALLED (YEAR/MO) 1940's	TANK CAPACITY IN GALLONS 500	44 NUMBER OF COMPARTMENTS

ADDITIONAL DESCRIPTION (For local use only)

II. TANK CONTENTS			
TANK USE <input type="checkbox"/> 1. MOTOR VEHICLE FUEL <small>(Marked with the previous Type)</small> <input type="checkbox"/> 2. NON-FUEL PETROLEUM <input type="checkbox"/> 3. CHEMICAL PRODUCT <input type="checkbox"/> 4. HAZARDOUS WASTE <small>(including oil - heating oil)</small> <input type="checkbox"/> 5. UNKNOWN	PETROLEUM TYPE <input type="checkbox"/> 1a. MOBILE UNLEADED <input type="checkbox"/> 1b. PREMIUM UNLEADED <input type="checkbox"/> 1c. MIDGRADE UNLEADED <input type="checkbox"/> 1d. LEADED <input type="checkbox"/> 1e. DIESEL <input type="checkbox"/> 1f. GASOHOL <input type="checkbox"/> 1g. JET FUEL <input type="checkbox"/> 1h. AVIATION FUEL <input type="checkbox"/> 1i. OTHER	COMMON NAME (From Hazardous Material Inventory page) CAJF (from Hazardous Material Inventory page)	45

III. TANK CONSTRUCTION			
TYPE OF TANK <small>(Check one item only)</small>	<input type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 2. SINGLE WALL WITH EXTERIOR MEMBRANE LINER	<input type="checkbox"/> 3. SINGLE WALL WITH INTERNAL BLADDER SYSTEM
	<input type="checkbox"/> 4. DOUBLE WALL	<input type="checkbox"/> 5. STONE WALL IN VAULT	<input type="checkbox"/> 6. UNKNOWN <input type="checkbox"/> 7. OTHER
TANK MATERIAL - PRIMARY <small>(Check one item only)</small>	<input type="checkbox"/> 1. EASY STEEL	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 3. FIBERGLASS/PLASTIC <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)
TANK MATERIAL - SECONDARY <small>(Check one item only)</small>	<input type="checkbox"/> 1. EASY STEEL	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 3. FIBERGLASS/PLASTIC <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)
	<input type="checkbox"/> 5. CONCRETE	<input type="checkbox"/> 6. CONCRETE <input type="checkbox"/> 7. FIBER COMPIBLE W/100% METHANOL	<input type="checkbox"/> 8. UNKNOWN <input type="checkbox"/> 9. OTHER
TANK INTERIOR LINING <small>(Check one item only)</small>	<input type="checkbox"/> 1. RUBBER LINED	<input type="checkbox"/> 2. EPOXY LINING	<input type="checkbox"/> 3. GLASS LINING <input type="checkbox"/> 4. UNKNOWN <input type="checkbox"/> 5. OTHER
OR COATING <small>(Check one item only)</small>	<input type="checkbox"/> 6. ALKYD LINING	<input type="checkbox"/> 7. PHENOLIC LINING	<input type="checkbox"/> 8. UNLINED <input type="checkbox"/> 9. OTHER

OTHER CORROSION PROTECTION IF APPLICABLE <small>(Check one item only)</small>	<input type="checkbox"/> 1 MANUFACTURED CATHODIC <input type="checkbox"/> 2 SACRIFICIAL ANODES	<input type="checkbox"/> 3 FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 4 IMPRESSED CURRENT	<input type="checkbox"/> 5 UNKNOWN <input type="checkbox"/> 6 OTHER
--	---	--	--

SPILL AND OVERFILL <small>(Check all that apply)</small>	YEAR INSTALLED	TYPE (For local use only)	OVERFILL PROTECTION EQUIPMENT/YEAR INSTALLED
	<input type="checkbox"/> 1 SPILL CONTAINMENT		<input type="checkbox"/> 1 ALARM <input type="checkbox"/> 2 BALL FLOAT
	<input type="checkbox"/> 2 DROP TUBE		<input type="checkbox"/> 3 SPILL TUBE SHUT OFF VALVE <input type="checkbox"/> 4 EXEMPT
	<input type="checkbox"/> 3 STRIKER PLATE		

IV. TANK LEAK DETECTION (A description of the leak detection program shall be submitted to the local agency.)			
IF SINGLE WALL TANK (Check all that apply)	46	IF DOUBLE WALL TANK OR TANK WITH BLADDER <small>(Check one item only)</small>	
<input type="checkbox"/> 1 VISUAL (EXPOSED PORTION ONLY)		<input type="checkbox"/> 1 VISUAL (DOUBLE WALL IN VAULT ONLY)	
<input type="checkbox"/> 2 AUTOMATIC TANK GAUGING (ATO)		<input type="checkbox"/> 2 CONTINUOUS INTERSTITIAL MONITORING	
<input type="checkbox"/> 3 CONTINUOUS ATO		<input type="checkbox"/> 3 MANUAL MONITORING	
<input type="checkbox"/> 4 STATISTICAL INVENTORY RECONCILIATION (SIR) BIMONTHLY TANK TESTING			
<input type="checkbox"/> 5 MANUAL TANK GAUGING (MTG)			
<input type="checkbox"/> 6 VADOSE ZONE			
<input type="checkbox"/> 7 GROUNDWATER			
<input type="checkbox"/> 8 TANK TESTING			
<input type="checkbox"/> 9 OTHER			

IV. TANK CLOSURE INFORMATION/PERMANENT CLOSURE IN PLACE		
ESTIMATED DATE LAST USED (YR/MO/DAY)	47	ESTIMATED QUANTITY OF SUBSTANCE REMAINING
		EDITIONS
		TANK FILLED WITH INERT MATERIAL
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - TANK PAGE 2

TANKS

VII. PIPING CONSTRUCTION (Check all that apply)

Page 1 of 2

UNDERGROUND PIPING

SYSTEM TYPE: 1. PRESSURE 2. SUCTION 3. GRAVITY 451
 CONSTRUCTION: 1. SINGLE WALL 2. LINED TRENCH 3. OTHER 460
 MANUFACTURER: 1. DOUBLE WALL 2. UNKNOWN 461

ABOVEGROUND PIPING
 1. PRESSURE 2. SUCTION 3. GRAVITY 459
 1. SINGLE WALL 2. DOUBLE WALL 3. UNKNOWN 462
 MANUFACTURER: 3. OTHER 463

1. BARE STEEL 6. PVC COMPATIBLE W/100% METHANE
 2. STAINLESS STEEL 7. GALVANIZED STEEL UNKNOWN
 3. PLASTIC COMPATIBLE W/ CONTENTS 8. FLEXIBLE (HDPE) 9. OTHER
 4. FIBERGLASS 5. STEEL W/COATING 10. CATHODIC PROTECTION 464

1. BARE STEEL 6. PVC COMPATIBLE W/100% METHANE
 2. STAINLESS STEEL 7. GALVANIZED STEEL
 3. PLASTIC COMPATIBLE W/ CONTENTS 8. FLEXIBLE (HDPE) 9. OTHER
 4. FIBERGLASS 5. STEEL W/COATING 10. CATHODIC PROTECTION
 6. UNKNOWN 465

VII. PIPING LEAK DETECTION (Check all that apply)

(A description of leak detection equipment shall be attached to the first page.)

UNDERGROUND PIPING

SINGLE WALL PIPING 466
 PRESSURIZED PIPING (Check if applicable):
 1. ELECTRONIC LINE LEAK DETECTOR 1.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.
 2. MONTHLY 0.2 GPH TEST
 3. ANNUAL INTEGRITY TEST (0.1 GPH)

ABOVEGROUND PIPING

CONVENTIONAL SUCTION SYSTEMS
 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)
 SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):
 7. SELF MONITORING
 GRAVITY FLOW
 9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SINGLE WALL PIPING 467
 PRESSURIZED PIPING (Check if applicable):
 1. ELECTRONIC LINE LEAK DETECTOR 1.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.
 2. MONTHLY 0.2 GPH TEST
 3. ANNUAL INTEGRITY TEST (0.1 GPH)
 4. DAILY VISUAL CHECK

CONVENTIONAL SUCTION SYSTEMS (Check if applicable)

5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM
 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)
 SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):
 7. SELF MONITORING
 GRAVITY FLOW (Check if applicable):
 8. DAILY VISUAL MONITORING
 9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SECONDARILY CONTAINED PIPING
 PRESSURIZED PIPING (Check if applicable):
 10. CONTINUOUS TURBINE BUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check if applicable)
 a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
 b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
 c. NO AUTO PUMP SHUT OFF
 11. AUTOMATIC LINE LEAK DETECTOR (0.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION
 12. ANNUAL INTEGRITY TEST (0.1 GPH)
 SUCTION/GRAVITY SYSTEM
 13. CONTINUOUS BUMP SENSOR + AUDIBLE AND VISUAL ALARMS
 EMERGENCY GENERATORS ONLY (Check if applicable)
 14. CONTINUOUS BUMP SENSOR, BATHMAID, AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS
 15. AUTOMATIC LINE LEAK DETECTOR (0.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION
 16. ANNUAL INTEGRITY TEST (0.1 GPH)
 17. DAILY VISUAL CHECK

SECONDARILY CONTAINED PIPING
 PRESSURIZED PIPING (Check if applicable):
 10. CONTINUOUS TURBINE BUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check if applicable)
 a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
 b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
 c. NO AUTO PUMP SHUT OFF
 11. AUTOMATIC LEAK DETECTOR
 12. ANNUAL INTEGRITY TEST (0.1 GPH)

SUCTION/GRAVITY SYSTEM

13. CONTINUOUS BUMP SENSOR + AUDIBLE AND VISUAL ALARMS
 EMERGENCY GENERATORS ONLY (Check if applicable)
 14. CONTINUOUS BUMP SENSOR, BATHMAID, AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS
 15. AUTOMATIC LINE LEAK DETECTOR (0.0 GPH TEST)
 16. ANNUAL INTEGRITY TEST (0.1 GPH)
 17. DAILY VISUAL CHECK

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE	<input type="checkbox"/> 4. DAILY VISUAL CHECK
DATE INSTALLED	<input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 5. TRENCH LINER / MONITORING
	<input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 6. NONE 468

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR: *Young Lynch* DATE: *11-09-04* 470

NAME OF OWNER/OPERATOR (Print)	TITLE OF OWNER/OPERATOR
<i>Young Lynch</i>	

Permit Number (Permit if necessary) *401* Person Approved (If Local Law Only) *471* Permit Expiration Date (If Local Law Only) *472*

**APPENDIX C
LABORATORY DATA SHEETS &
CHAIN OF CUSTODY DOCUMENTS**

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Jack Horner
E2C, Inc.
382 Martin Avenue
Santa Clara, CA 95050

Certificate ID: 41617 - 12/17/2004 3:09:18 PM

Order: 41617
Project Name: Loring Lynch
Project Number: 2398SC01

Date Collected: 12/10/2004
Date Received: 12/10/2004
P.O. Number: 2398SC01

Certificate of Analysis - Revision

Note: This is a revision of the original 12/16/2004 issue to include comment on the TPH analysis.

On December 10, 2004, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>	<u>Comments</u>
Solid	8260Petroleum	EPA 8260B	
	Oil & Grease-IR	SM 5520 C	
	TPH as Gasoline - GCMS	GC-MS	
	TPH-Extractable	EPA 8015 MOD. (Extractable)	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

E2C, Inc.
382 Martin Avenue
Santa Clara, CA 95050
Attn: Jack Horner

Project Number: 2398SC01
Project Name: Loring Lynch
Date Received: 12/10/2004
P.O. Number: 2398SC01
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 41617-001 Sample ID: S-1 Matrix: Solid Sample Date: 12/10/2004 10:45 AM

Method: EPA 8015 MOD. (Extractable) / EPA 3545 / Pressurized Fluid Extraction, MeCl

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	9600		250	630	mg/Kg	12/13/2004	DS4479A	12/14/2004	DS4479A

Surrogate Surrogate Recovery Control Limits (%)

o-Terphenyl NR 41 - 137 Analyzed by: Jhsiang

Reviewed by: LGLANTZ

*** Surrogate recovery not reportable due to dilution of the sample.

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		5	25	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Toluene	ND		5	25	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Ethyl Benzene	ND		5	25	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Xylenes, Total	69		5	50	µg/Kg	N/A	N/A	12/14/2004	SMS3041214

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene 102 75 - 125 Analyzed by: BELA

Dibromofluoromethane 107 75 - 125 Reviewed by: MTU

Toluene-d8 107 75 - 125

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	4100		5	250	µg/Kg	N/A	N/A	12/14/2004	SMS3041214

Note: Not a gasoline pattern; volatile fraction of Diesel calculated as gasoine.

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: BELA
4-Bromofluorobenzene	102	75 - 125	Reviewed by: MTU
Dibromofluoromethane	107	75 - 125	
Toluene-d8	107	75 - 125	

Method: SM 5520 C

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease, Total	5900		20	500	mg/Kg	12/16/2004	SINO041216	12/16/2004	SOGIR041216

Analyzed by: Mfelix

Reviewed by: RLAZARO

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

E2C, Inc.
382 Martin Avenue
Santa Clara, CA 95050
Attn: Jack Horner

Project Number: 2398SC01
Project Name: Loring Lynch
Date Received: 12/10/2004
P.O. Number: 2398SC01
Sampled By: Client

Certificate of Analysis - Data Report

Lab # : 41617-002	Sample ID: Stock-1	Matrix: Solid	Sample Date: 12/10/2004 10:50 AM
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Method: EPA 8015 MOD. (Extractable) / EPA 3545 / Pressurized Fluid Extraction, MeCl

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	9200		250	630	mg/Kg	12/13/2004	DS4479A	12/14/2004	DS4479A
Surrogate Surrogate Recovery Control Limits (%)									
o-Terphenyl NR 41 - 137									
*** Surrogate recovery not reportable due to dilution of the sample.									

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		200	1000	µg/Kg	12/14/2004	PMS041214	12/15/2004	SMS3041214B
Toluene	ND		200	1000	µg/Kg	12/14/2004	PMS041214	12/15/2004	SMS3041214B
Ethyl Benzene	ND		200	1000	µg/Kg	12/14/2004	PMS041214	12/15/2004	SMS3041214B
Xylenes, Total	ND		200	2000	µg/Kg	12/14/2004	PMS041214	12/15/2004	SMS3041214B
Surrogate Surrogate Recovery Control Limits (%)									
4-Bromofluorobenzene 118 75 - 125									
Dibromofluoromethane 103 75 - 125									
Toluene-d8 109 75 - 125									

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	130000		200	10000	µg/Kg	12/14/2004	PMS041214	12/15/2004	SMS3041214B
Note: Not a gasoline pattern; volatile fraction of Diesel calculated as gasoine.									
Surrogate Surrogate Recovery Control Limits (%)									
4-Bromofluorobenzene 118 75 - 125									
Dibromofluoromethane 103 75 - 125									
Toluene-d8 109 75 - 125									

Method: SM 5520 C

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease, Total	5700		20	500	mg/Kg	12/16/2004	SINO041216	12/16/2004	SOGIR041216
Analyzed by: Mfelix									
Reviewed by: RLAZARO									

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

DF = Dilution and/or Prep Factor including sample volume adjustments.

12/17/2004 2:59:33 PM - lglatz

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

E2C, Inc.
382 Martin Avenue
Santa Clara, CA 95050
Attn: Jack Horner

Project Number: 2398SC01
Project Name: Loring Lynch
Date Received: 12/10/2004
P.O. Number: 2398SC01
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 41617-003 Sample ID: Stock-2 Matrix: Solid Sample Date: 12/10/2004 10:55 AM

Method: EPA 8015 MOD. (Extractable) / EPA 3545 / Pressurized Fluid Extraction, MeCl

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	5.5		1	2.5	mg/Kg	12/13/2004	DS4479A	12/14/2004	DS4479A
Surrogate Surrogate Recovery Control Limits (%)									
o-Terphenyl 99.3 41 - 137 Analyzed by: Jhsiang Reviewed by: LGLANTZ									

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	5	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Toluene	ND		1	5	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Ethyl Benzene	ND		1	5	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Xylenes, Total	ND		1	10	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Surrogate Surrogate Recovery Control Limits (%)									
4-Bromofluorobenzene	94.5		75	- 125				Analyzed by: Bdhabalia Reviewed by: MTU	
Dibromofluoromethane	113		75	- 125					
Toluene-d8	107		75	- 125					

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/Kg	N/A	N/A	12/14/2004	SMS3041214
Surrogate Surrogate Recovery Control Limits (%)									
4-Bromofluorobenzene	94.5		75	- 125				Analyzed by: Bdhabalia Reviewed by: MTU	
Dibromofluoromethane	113		75	- 125					
Toluene-d8	107		75	- 125					

Method: SM 5520 C

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease, Total	ND		1	25	mg/Kg	12/16/2004	SINO041216	12/16/2004	SOGIR041216
Analyzed by: Mfelix Reviewed by: RLAZARO									

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

DF = Dilution and/or Prep Factor including sample volume adjustments.

12/17/2004 2:59:40 PM - lgantz

Entech Analytical Labs, Inc.

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Quality Control - Method Blank

Solid

Prep Batch ID: DS4479A

Validated by: LGLANTZ - 12/14/04

QC Batch ID: DS4479A

Prep Date: 12/13/2004

Analysis Date: 12/13/2004

Method Blank	Method: EPA 8015 MOD. (Extractable)				
Parameter	Result	DF	PQLR	Units	
TPH as Diesel	ND	1	2.5	mg/Kg	
Surrogate for Blank	% Recovery	Control Limits			
o-Terphenyl	106	41 - 137			

Quality Control - Laboratory Control Spike / Duplicate Results

Solid

Prep Batch ID: DS4479A

Reviewed by: LGLANTZ - 12/14/04

QC Batch ID: DS4479A

Prep Date: 12/13/2004

Analysis Date: 12/13/2004

LCS	Method: EPA 8015 MOD. (Extractable)						Conc. Units: mg/Kg		
Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<0.7	50.0	50.9	LCS	12/13/2004	102			44 - 108
Surrogate	% Recovery		Control Limits						
o-Terphenyl	118	41 - 137							

LCSD	Method: EPA 8015 MOD. (Extractable)						Conc. Units: mg/Kg		
Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<0.7	50.0	49.4	LCSD	12/13/2004	98.8	3.0	30	44 - 108
Surrogate	% Recovery		Control Limits						
o-Terphenyl	112	41 - 137							

Quality Control - Matrix Spike / Duplicate Results

Solid

Prep Batch ID: DS4479A

Reviewed by: LGLANTZ - 12/16/04

QC Batch ID: DS4479A

Prep Date: 12/13/2004

Analysis Date: 12/13/2004

Method	EPA 8015 MOD. (Extractable)						Conc. Units: mg/Kg			
Parameter	Sample Number	Sample Result	Spike Amount	Spike Result	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
MS	SampleNumber: 41638-001									
TPH as Diesel		ND	50	41.8	MS	12/13/2004	83.6			33 - 107
TPH as Motor Oil		ND	50	25.4	MS	12/13/2004	50.9			11 - 158
Surrogate	% Recovery		Control Limits							
o-Terphenyl	88.9	41 - 137								
MSD	SampleNumber: 41638-001									
TPH as Diesel		ND	50	39.6	MSD	12/13/2004	79.2	5.4	30	33 - 107
TPH as Motor Oil		ND	50	25.9	MSD	12/13/2004	51.8	1.8	30	11 - 158
Surrogate	% Recovery		Control Limits							
o-Terphenyl	86.4	41 - 137								

Entech Analytical Labs, Inc.

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Quality Control - Method Blank

Solid

Validated by: MTU - 12/15/04

QC Batch ID: SMS3041214

Analysis Date: 12/14/2004

Method Blank	Method: EPA 8260B			
Parameter	Result	DF	PQLR	Units
Benzene	ND	1	5	µg/Kg
Diisopropyl Ether	ND	1	5	µg/Kg
Ethyl Benzene	ND	1	5	µg/Kg
Ethyl-t-butyl Ether	ND	1	5	µg/Kg
Methyl-t-butyl Ether	ND	1	5	µg/Kg
tert-Amyl Methyl Ether	ND	1	5	µg/Kg
tert-Butanol (TBA)	ND	1	40	µg/Kg
Toluene	ND	1	5	µg/Kg
Xylenes, Total	ND	1	10	µg/Kg
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	104	75 - 125		
Dibromofluoromethane	109	75 - 125		
Toluene-d8	112	75 - 125		

Quality Control - Laboratory Control Spike / Duplicate Results

Solid

Reviewed by: MTU - 12/15/04

QC Batch ID: SMS3041214

Analysis Date: 12/14/2004

LCS	Method: EPA 8260B						Conc. Units: µg/Kg		
Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.2	40.0	43.5	LCS	12/14/2004	109			70 - 130
Methyl-t-butyl Ether	<0.5	40.0	32.0	LCS	12/14/2004	80.0			70 - 130
Toluene	<0.5	40.0	42.6	LCS	12/14/2004	107			70 - 130
Surrogate	% Recovery	Control Limits							
4-Bromofluorobenzene	113	75 - 125							
Dibromofluoromethane	107	75 - 125							
Toluene-d8	110	75 - 125							

LCSD	Method: EPA 8260B						Conc. Units: µg/Kg		
Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.2	40.0	47.3	LCSD	12/14/2004	118	8.4	30	70 - 130
Methyl-t-butyl Ether	<0.5	40.0	36.2	LCSD	12/14/2004	90.5	12.4	30	70 - 130
Toluene	<0.5	40.0	48.2	LCSD	12/14/2004	120	12.2	30	70 - 130
Surrogate	% Recovery	Control Limits							
4-Bromofluorobenzene	113	75 - 125							
Dibromofluoromethane	114	75 - 125							
Toluene-d8	117	75 - 125							

Entech Analytical Labs, Inc.

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Quality Control - Matrix Spike / Duplicate Results Solid

Reviewed by: MTU - 12/15/04

QC Batch ID: SMS3041214

Analysis Date: 12/14/2004

Method EPA 8260B							Cone. Units: µg/Kg			
Parameter	Sample Number	Sample Result	Spike Amount	Spike Result	QC Type	Analysis Date	% Recovery	RPD	Recovery Limits	
MS	SampleNumber: 41617-003									
Benzene		ND	40	38.4	MS	12/14/2004	96.0		65 - 135	
Toluene		ND	40	36.6	MS	12/14/2004	91.5		65 - 135	
Surrogate		% Recovery	Control Limits							
4-Bromofluorobenzene		101	75 - 125							
Dibromofluoromethane		110	75 - 125							
Toluene-d8		111	75 - 125							
MSD	SampleNumber: 41617-003									
Benzene		ND	40	40.7	MSD	12/14/2004	102	5.9	30	65 - 135
Toluene		ND	40	39.1	MSD	12/14/2004	97.9	6.8	30	65 - 135
Surrogate		% Recovery	Control Limits							
4-Bromofluorobenzene		105	75 - 125							
Dibromofluoromethane		112	75 - 125							
Toluene-d8		109	75 - 125							

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Quality Control - Method Blank

Solid

Prep Batch ID: PMS041214

Reviewed by: MTU - 12/15/04

QC Batch ID: SMS3041214B

Prep Date: 12/14/2004

Analysis Date: 12/14/2004

Method Blank1 Method: EPA 8260B

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	0.0	50	250	µg/Kg
1,2-Dichloroethane	0.0	50	250	µg/Kg
Benzene	ND	50	250	µg/Kg
Diisopropyl Ether	ND	50	250	µg/Kg
Ethyl Benzene	ND	50	250	µg/Kg
Ethyl-t-butyl Ether	ND	50	250	µg/Kg
Methyl-t-butyl Ether	ND	50	250	µg/Kg
tert-Amyl Methyl Ether	ND	50	250	µg/Kg
tert-Butanol (TBA)	ND	50	2000	µg/Kg
Toluene	ND	50	250	µg/Kg
Xylenes, Total	ND	50	500	µg/Kg

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	97.6	75 - 125
Dibromofluoromethane	99.7	75 - 125
Toluene-d8	110	75 - 125

Quality Control - Laboratory Control Spike / Duplicate Results

Solid

Prep Batch ID: PMS041214

Reviewed by: MTU - 12/15/04

QC Batch ID: SMS3041214B

Prep Date: 12/14/2004

Analysis Date: 12/14/2004

LCS1 Method: EPA 8260B

Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Conc. Units: µg/Kg
Benzene	<0.2	2000	2380	LCS1	12/14/2004	119			70 - 130
Methyl-t-butyl Ether	<0.5	2000	1810	LCS1	12/14/2004	90.5			70 - 130
Toluene	<0.5	2000	2330	LCS1	12/14/2004	117			70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	95	75 - 125
Dibromofluoromethane	111	75 - 125
Toluene-d8	103	75 - 125

LCSD1 Method: EPA 8260B

Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Conc. Units: µg/Kg
Benzene	<0.2	2000	2420	LCSD1	12/14/2004	121	1.9	30	70 - 130
Methyl-t-butyl Ether	<0.5	2000	1900	LCSD1	12/14/2004	94.9	4.7	30	70 - 130
Toluene	<0.5	2000	2420	LCSD1	12/14/2004	121	3.7	30	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	95.2	75 - 125
Dibromofluoromethane	108	75 - 125
Toluene-d8	103	75 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

Quality Control - Method Blank

Solid

Validated by: MTU - 12/15/04

QC Batch ID: SMS3041214

Analysis Date: 12/14/2004

Method Blank		Method: GC-MS			
Parameter		Result	DF	PQLR	Units
TPH as Gasoline		ND	1	50	µg/Kg
Surrogate for Blank	% Recovery	Control Limits			
4-Bromofluorobenzene	104	75 - 125			
Dibromofluoromethane	109	75 - 125			
Toluene-d8	112	75 - 125			

Quality Control - Laboratory Control Spike / Duplicate Results

Solid

Reviewed by: MTU - 12/15/04

QC Batch ID: SMS3041214

Analysis Date: 12/14/2004

LCS	Method: GC-MS					Conc. Units: µg/KG			
Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<9	250	239	LCS	12/14/2004	95.6			70 - 130
Surrogate	% Recovery	Control Limits							
4-Bromofluorobenzene	99.5	75 - 125							
Dibromofluoromethane	111	75 - 125							
Toluene-d8	109	75 - 125							
LCSD	Method: GC-MS					Conc. Units: µg/KG			
Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<9	250	231	LCSD	12/14/2004	92.2	3.6	30	70 - 130
Surrogate	% Recovery	Control Limits							
4-Bromofluorobenzene	102	75 - 125							
Dibromofluoromethane	109	75 - 125							
Toluene-d8	109	75 - 125							

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Quality Control - Method Blank

Solid

Prep Batch ID: PMS041214

Validated by: MTU - 12/15/04

QC Batch ID: SMS3041214B

Prep Date: 12/14/2004

Analysis Date: 12/14/2004

Method Blank1 Method: GC-MS

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	50	2500	µg/Kg
Surrogate for Blank % Recovery Control Limits				
4-Bromofluorobenzene	97.6	75 - 125		
Dibromofluoromethane	99.7	75 - 125		
Toluene-d8	110	75 - 125		

Quality Control - Laboratory Control Spike / Duplicate Results

Solid

Prep Batch ID: PMS041214

Reviewed by: MTU - 12/15/04

QC Batch ID: SMS3041214B

Prep Date: 12/14/2004

Analysis Date: 12/14/2004

LCS1 Method: EPA 8260B

Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Cone. Units: µg/Kg
Benzene	<0.2	2000	2380	LCS1	12/14/2004	119			70 - 130
Methyl-t-butyl Ether	<0.5	2000	1810	LCS1	12/14/2004	90.5			70 - 130
Toluene	<0.5	2000	2330	LCS1	12/14/2004	117			70 - 130

LCSD1 Method: EPA 8260B

Parameter	Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Cone. Units: µg/Kg
Benzene	<0.2	2000	2420	LCSD1	12/14/2004	121	1.9	30	70 - 130
Methyl-t-butyl Ether	<0.5	2000	1900	LCSD1	12/14/2004	94.9	4.7	30	70 - 130
Toluene	<0.5	2000	2420	LCSD1	12/14/2004	121	3.7	30	70 - 130

Entech Analytical Labs, Inc.

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Quality Control - Method Blank

Solid

Prep Batch ID: SINO041216

Validated by: RLAZARO - 12/16/04

QC Batch ID: SOGIR041216

Prep Date: 12/16/2004

Analysis Date: 12/16/2004

Method Blank	Method: SM 5520 C			
Parameter	Result	DF	PQLR	Units
Oil and Grease, Total	ND	1	25	mg/Kg

Quality Control - Laboratory Control Spike / Duplicate Results

Solid

Prep Batch ID: SINQ041216

Reviewed by: RLAZARO - 12/16/04

QC Batch ID: SOGIR041216

Prep Date: 12/16/2004

Analysis Date: 12/16/2004

LCS **Method:** **SM 5520 C** **Conc. Units:** mg/Kg
Parameter **Blank (MDL)** **Spike Amt** **SpikeResult** **QC Type** **Analysis Date** **% Recovery** **RPD** **RPD Limits** **Recovery Limits**
Oil and Grease, Total <25 217 200 LCS 12/16/2004 92.3 75 - 125

LCSID	Method:	SM 5520 C						Conc. Units: mg/Kg		
Parameter		Blank (MDL)	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Oil and Grease, Total		<25	217	203	LCSID	12/16/2004	93.7	1.5	30	75 - 125

Chain of Custody Record

382 Martin Ave, Santa Clara, CA 95050; 408-327-5700, FAX: 327-5707

Job Name/Location: Driving Lanes / 36 W. Northwestern Dr. AthertonProject No.: 2398501 For EDF/ Global ID:N/ASampler's Name: Fornast Cook

Send Results To:

Fornast Cook

Sample ID	Date	Time	Matrix	# of Con	Con Type	Prsv
S-1	12.10.04	10:45	Soil	1		
Stock -1		10:50				
Stock -2		10:55				

Analysis Requested

TPH Diesel (8015M)	X					
TPH Gasoline (8015M)	X					
BTEX (EPA 8021)	X					
5 Oxygenates (8260B)	X					
7 Oxygenates (8260B)	X					
MTBE (EPA 8260B)	X					
BTEX (8260B)	X					
Full Scan 8260B	X					
TPH Gasoline by GC/MS	X					
T.D.G.	X					

Containers:	B = Bottle; J = Jar
V	= Vial; T = Tube
G	= Glass; P=Plastic
M	= Metal; A = Amber
Matrix:	
SO	= Soil / Solid;
W	= Water; A = Air
L	= Liquid; O = Oil
P	= Product;
V=Vapor; SL=Sludge	
GS	= Soil Gas

Comments
441617-001-002-003

NOTES:

Turn-Around Time:	Standard	5-Day	72-Hour	48-Hour	24-Hour	Other:
Relinquished By:	<u>M. C.</u>	<u>X</u>				Date: <u>12/10/04</u>
Received By:	<u>Received</u>					Date: <u>12/10/04</u>

Quantitation Report

(QT Reviewed)

Data File : G:\HPCHEM\1\DATA\M3041214\M3121409.D
 Acq On : 14 Dec 2004 1:40 pm
 Sample : 41617-003S5.00
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 14 14:13 2004

Vial: 8
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: M3S30930.RES

Quant Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Initial Calibration
 DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	12.34	168	85371	100.00	ng	-0.06
39) 1,4-Difluorobenzene	13.90	114	147131	100.00	ng	-0.08
54) Chlorobenzene-d5	18.51	117	144890	100.00	ng	-0.09
80) 1,4-Dichlorobenzene-d4	22.09	152	74236	100.00	ng	-0.08

System Monitoring Compounds

20) MTBE-d3	9.71	76	1481	0.00	ng	0.15
Spiked Amount 100.000	Range 56 - 139		Recovery =	0.00%	#	
35) Dibromofluoromethane	12.49	111	55231	113.14	ng	-0.07
Spiked Amount 100.000	Range 57 - 139		Recovery =	113.14%		
37) 1,2-Dichloroethane-d4	13.28	65	52646	107.01	ng	-0.06
Spiked Amount 100.000	Range 65 - 135		Recovery =	107.01%		
55) Toluene-d8	16.23	98	195425	106.77	ng	-0.09
Spiked Amount 100.000	Range 65 - 135		Recovery =	106.77%		
77) 4-Bromofluorobenzene	20.21	95	70889	94.50	ng	-0.08
Spiked Amount 100.000	Range 65 - 135		Recovery =	94.50%		

Target Compounds

					Qvalue
19) Carbon Disulfide	9.71	76	1481	0.85	ng # 75
43) Benzene	13.54	78	1948m9	0.95	ng
56) Toluene	16.35	92	3871	2.83	ng 92
62) Tetrachloroethene	17.39	164	5167	9.02	ng 98
63) Dibromochloromethane	17.38	129	5026	7.25	ng # 11
83) 1,3,5-Trimethylbenzene	20.66	105	1126	0.58	ng # 29
88) 1,2,4-Trimethylbenzene	21.28	105	2204m12	1.11	ng
99) Naphthalene	26.68	128	10325m12	5.35	ng
101) TPH-Gasoline	15.00	TIC	144923m	32.08	ng

not inflow

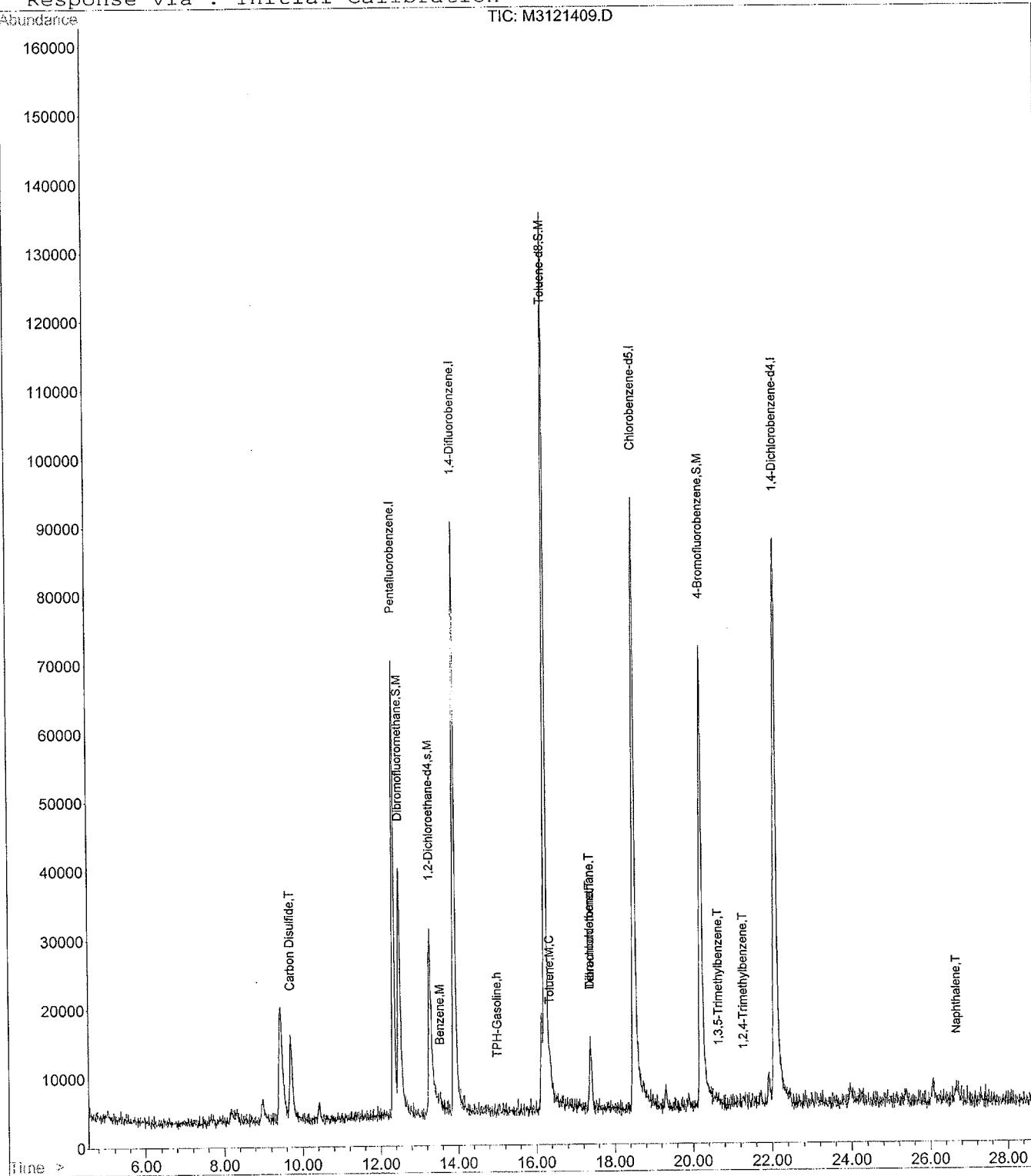
Quantitation Report

Data File : G:\HPCHEM\1\DATA\M3041214\M3121409.D
 Acq On : 14 Dec 2004 1:40 pm
 Sample : 41617-003S5.00
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 14 14:13 2004

Vial: 8
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: M3S30930.RES

Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Initial Calibration



QCBatchID	SampleNumber	Test	Param	Result	Units	Dilution	TestDate	Analysis	NG AMT
SMS3041214B	41617-002	8260Petroleum	Methyl-t-butyl Ether	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	Dibromofluoromethane	103.4	%	200	12/15/04 BELA		103.4
SMS3041214B	41617-002	8260Petroleum	Toluene-d8	108.5	%	200	12/15/04 BELA		108.5
SMS3041214B	41617-002	8260Petroleum	4-Bromofluorobenzene	117.9	%	200	12/15/04 BELA		117.9
SMS3041214B	41617-002	8260Petroleum	Dilisopropyl Ether	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	Ethy-t-butyl Ether	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	Methyl-t-butyl Ether	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	tert-Amyl Methyl Ether	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	tert-Butanol (TBA)	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	Dibromofluoromethane	103.4	%	200	12/15/04 BELA		103.4
SMS3041214B	41617-002	8260Petroleum	Toluene-d8	108.5	%	200	12/15/04 BELA		108.5
SMS3041214B	41617-002	8260Petroleum	4-Bromofluorobenzene	117.9	%	200	12/15/04 BELA		117.9
SMS3041214B	41617-002	8260Petroleum	1,2-Dibromoethane (EDB)	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	1,2-Dichloroethane	ND	µg/Kg	200	12/15/04 BELA		0.000
SMS3041214B	41617-002	8260Petroleum	Dibromofluoromethane	103.4	%	200	12/15/04 BELA		103.4
SMS3041214B	41617-002	8260Petroleum	Toluene-d8	108.5	%	200	12/15/04 BELA		108.5
SMS3041214B	41617-002	8260Petroleum	4-Bromofluorobenzene	117.9	%	200	12/15/04 BELA		117.9
SMS3041214B	41617-002	8260Petroleum	Benzene	ND	µg/Kg	200	12/15/04 BELA		2.508
SMS3041214B	41617-002	8260Petroleum	Ethyl Benzene	ND	µg/Kg	200	12/15/04 BELA		6.793
SMS3041214B	41617-002	8260Petroleum	Toluene	ND	µg/Kg	200	12/15/04 BELA		20.278
SMS3041214B	41617-002	8260Petroleum	Xylene, m+p	1760.752	µg/Kg	200	12/15/04 BELA		44.019
SMS3041214B	41617-002	8260Petroleum	Xylene, o	ND	µg/Kg	200	12/15/04 BELA		19.380
SMS3041214B	41617-002	8260Petroleum	Xylenes, Total	1760.752	µg/Kg	200	12/15/04 BELA		63.399
SMS3041214B	41617-002	8260Petroleum	Dibromofluoromethane	103.4	%	200	12/15/04 BELA		103.4
SMS3041214B	41617-002	8260Petroleum	Toluene-d8	108.5	%	200	12/15/04 BELA		108.5
SMS3041214B	41617-002	8260Petroleum	4-Bromofluorobenzene	117.9	%	200	12/15/04 BELA		117.9
SMS3041214B	41617-002	TPH as Gasoline - C	Dibromofluoromethane	126156.556	µg/Kg	200	12/15/04 BELA		3153.924
SMS3041214B	41617-002	TPH as Gasoline - C	Toluene-d8	103.4	%	200	12/15/04 BELA		103.447
SMS3041214B	41617-002	TPH as Gasoline - C	4-Bromofluorobenzene	108.5	%	200	12/15/04 BELA		108.491
SMS3041214B	41617-002	TPH as Gasoline - C	Toluene-d8	117.9	%	200	12/15/04 BELA		117.870

12/15/04

100ul of the extract is a 10x dil from the 1 g purge

Quantitation Report

(QT Reviewed)

Data File : G:\HPCHEM\1\DATA\M3041214\M3121432.D
 Acq On : 15 Dec 2004 3:26 am
 Sample : 41617-002S.025
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 15 10:29 2004

Vial: 19
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: M3S30930.RES

Quant Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Initial Calibration
 DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	12.34	168	94494	100.00	ng	-0.05
39) 1,4-Difluorobenzene	13.92	114	167459	100.00	ng	-0.07
54) Chlorobenzene-d5	18.52	117	160158	100.00	ng	-0.08
80) 1,4-Dichlorobenzene-d4	22.10	152	87844	100.00	ng	-0.07

System Monitoring Compounds

20) MTBE-d3	0.00	76	0	0.00	ng	
Spiked Amount	100.000	Range	56 - 139	Recovery	=	0.00%#
35) Dibromofluoromethane	12.50	111	55894	103.45	ng	-0.06
Spiked Amount	100.000	Range	57 - 139	Recovery	=	103.45%
37) 1,2-Dichloroethane-d4	13.29	65	19353	35.54	ng	-0.05
Spiked Amount	100.000	Range	65 - 135	Recovery	=	35.54%#
55) Toluene-d8	16.25	98	219491	108.49	ng	-0.07
Spiked Amount	100.000	Range	65 - 135	Recovery	=	108.49%
77) 4-Bromofluorobenzene	20.22	95	97740	117.87	ng	-0.07
Spiked Amount	100.000	Range	65 - 135	Recovery	=	117.87%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	QValue
32) Methacrylonitrile	13.55	41	4332	6.49	ng	# 48
43) Benzene	13.55	78	5830	2.51	ng	100
44) n-Heptane	13.57	43	9933	9.59	ng	# 82
48) Methylcyclohexane	14.77	98	10132	17.91	ng	76
52) 4-Methyl-2-Pentanone (MIBK)	15.54	43	11132	12.30	ng	# 45
56) Toluene	16.37	92	30673	20.28	ng	95
59) 1,1,2-Trichloroethane	16.68	83	1651	2.94	ng	# 1
60) 2-Hexanone	16.75	43	7406	11.34	ng	# 27
68) Ethyl Benzene	18.63	91	19775	6.79	ng	92
69) Xylene, m+p	18.74	106	48115m	44.02	ng	
70) Xylene, o	19.37	106	21430	19.38	ng	91
75) Isopropylbenzene	19.87	105	7895	2.66	ng	# 49
76) 1,1,2,2-Tetrachloroethane	20.08	83	1382	1.29	ng	# 26
79) trans-1,4-Dichloro-2-butene	20.57	89	1258	2.05	ng	# 1
81) n-Propylbenzene	20.45	91	20893	6.01	ng	91
83) 1,3,5-Trimethylbenzene	20.66	105	53704	23.37	ng	93
84) 2-Chlorotoluene	20.65	91	4887	2.26	ng	# 45
85) 4-Chlorotoluene	20.65	91	4887	2.40	ng	# 41
86) tert-Butylbenzene	21.30	119	16827	7.32	ng	# 83
88) 1,2,4-Trimethylbenzene	21.29	105	138044	58.85	ng	99
89) sec-Butylbenzene	21.59	105	9263	2.90	ng	# 91
90) p-Isopropyltoluene	21.76	119	12901	5.06	ng	# 68
94) n-Butylbenzene	22.44	91	16868	7.19	ng	# 43
99) Naphthalene	26.68	128	29266	12.82	ng	
101) TPH-Gasoline	22.09	TIC	16861348m	3153.92	ng	100

(#) = qualifier out of range (m) = manual integration
 M3121432.D M3S30930.M Wed Dec 15 10:19:41 2004

BELA

Page 1

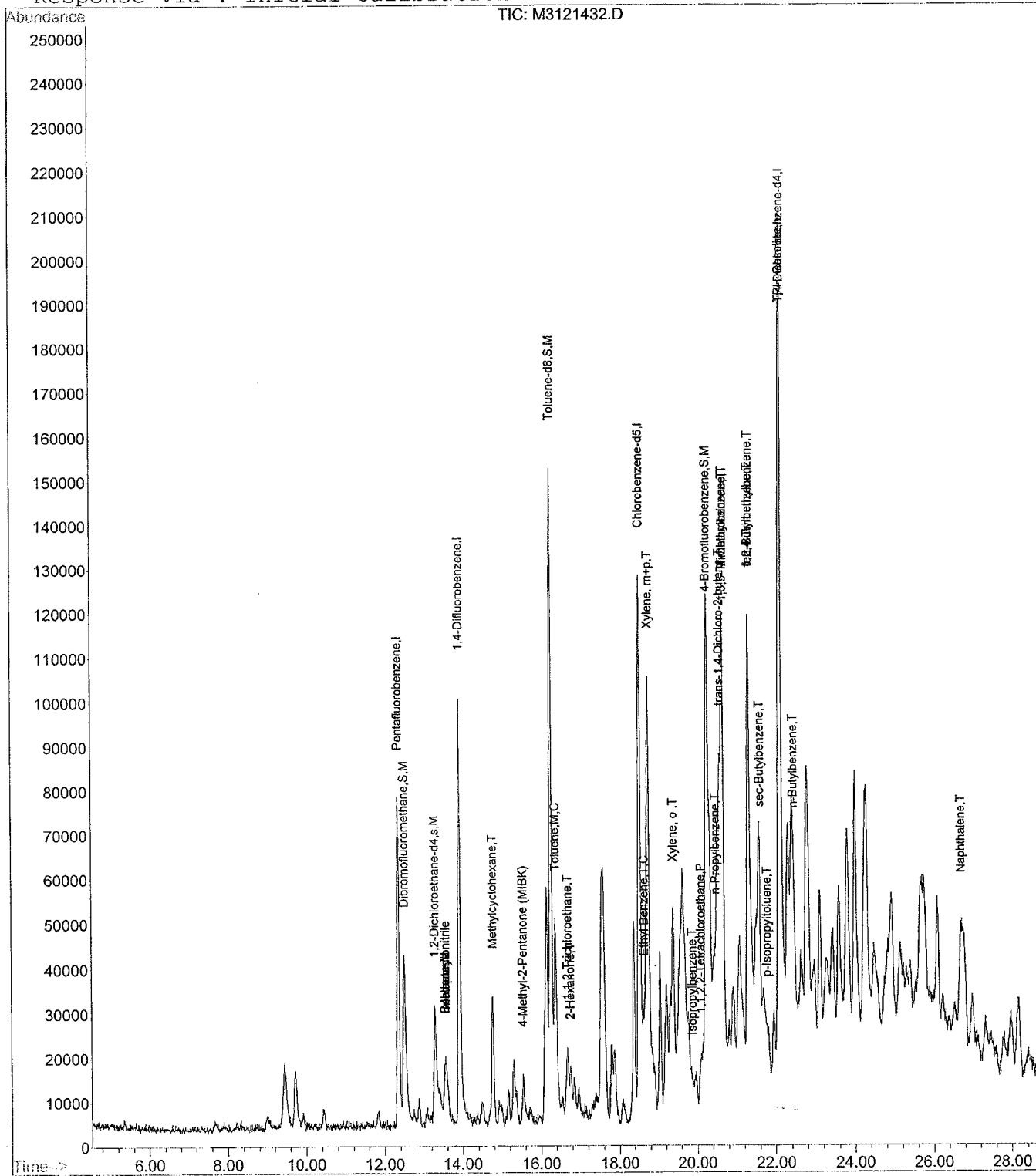
Quantitation Report

Data File : G:\HPCHEM\1\DATA\M3041214\M3121432.D
 Acq On : 15 Dec 2004 3:26 am
 Sample : 41617-002S.025
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 15 10:29 2004

Vial: 19
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: M3S30930.RES

Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Initial Calibration



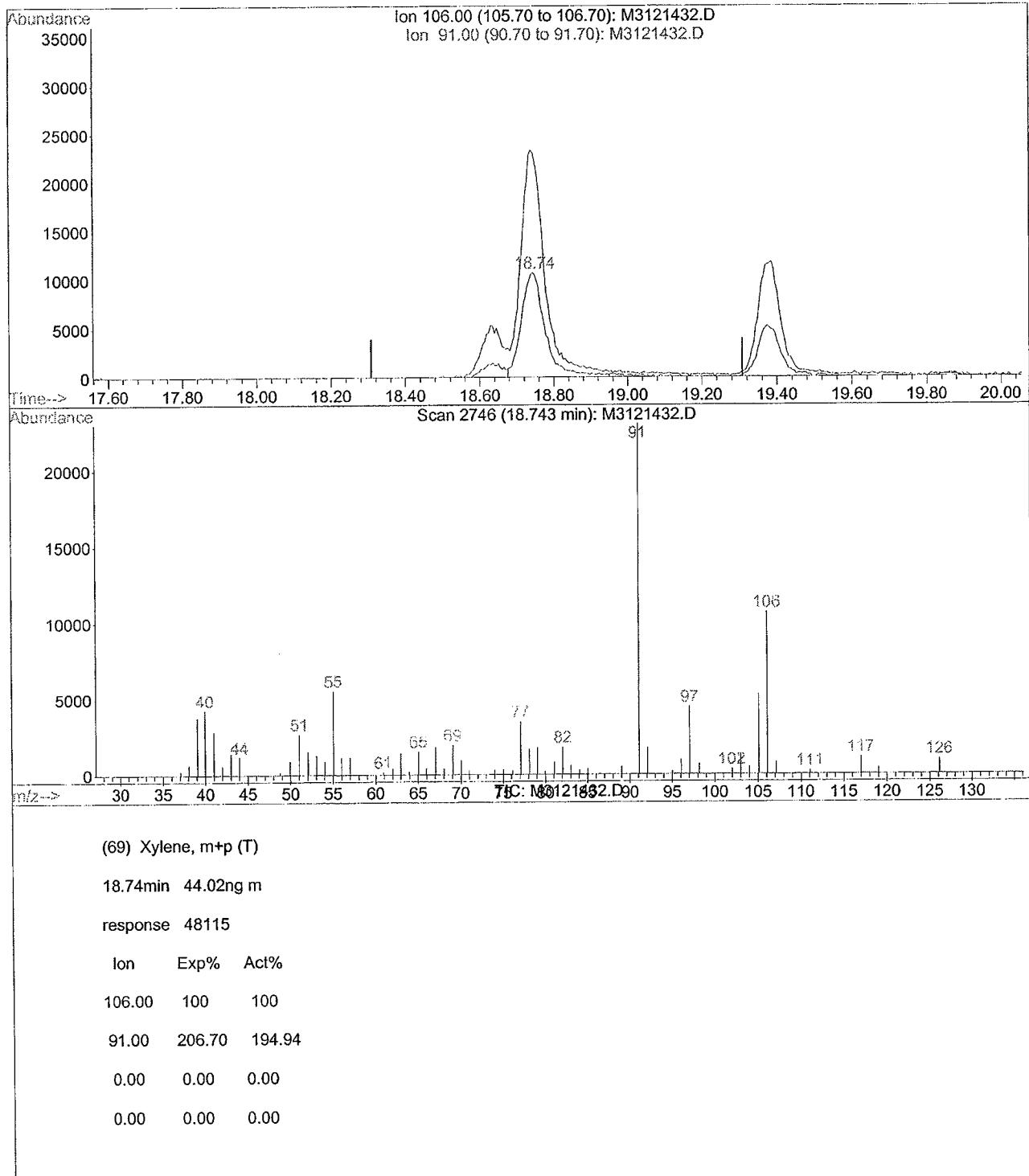
Quantitation Report (Qedit)

Data File : G:\HPCHEM\1\DATA\M3041214\M3121432.D
 Acq On : 15 Dec 2004 3:26 am
 Sample : 41617-002S.025
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 15 10:28 2004

Vial: 19
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: temp.res

Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Multiple Level Calibration



QCBatchID	SampleNumber	Test	Param	Result	Units	Dilution	TestDate	Analysis	NG AMT
SMS3041214	41617-001	8260Petroleum	Methyl-t-butyl Ether	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	Dibromofluoromethane	107.0	%	5	12/14/04	BELA	107.0
SMS3041214	41617-001	8260Petroleum	Toluene-d8	107.3	%	5	12/14/04	BELA	107.3
SMS3041214	41617-001	8260Petroleum	4-Bromofluorobenzene	102.5	%	5	12/14/04	BELA	102.5
SMS3041214	41617-001	8260Petroleum	Diisopropyl Ether	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	Ethyl-t-butyl Ether	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	Methyl-t-butyl Ether	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	tert-Amyl Methyl Ether	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	tert-Butanol (TBA)	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	Dibromofluoromethane	107.0	%	5	12/14/04	BELA	107.0
SMS3041214	41617-001	8260Petroleum	Toluene-d8	107.3	%	5	12/14/04	BELA	107.3
SMS3041214	41617-001	8260Petroleum	4-Bromofluorobenzene	102.5	%	5	12/14/04	BELA	102.5
SMS3041214	41617-001	8260Petroleum	1,2-Dibromoethane (EDB)	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	1,2-Dichloroethane	ND	ug/Kg	5	12/14/04	BELA	0.000
SMS3041214	41617-001	8260Petroleum	Dibromofluoromethane	107.0	%	5	12/14/04	BELA	107.0
SMS3041214	41617-001	8260Petroleum	Toluene-d8	107.3	%	5	12/14/04	BELA	107.3
SMS3041214	41617-001	8260Petroleum	4-Bromofluorobenzene	102.5	%	5	12/14/04	BELA	102.5
SMS3041214	41617-001	8260Petroleum	Benzene	ND	ug/Kg	5	12/14/04	BELA	0.876
SMS3041214	41617-001	8260Petroleum	Ethyl Benzene	ND	ug/Kg	5	12/14/04	BELA	2.256
SMS3041214	41617-001	8260Petroleum	Toluene	ND	ug/Kg	5	12/14/04	BELA	4.171
SMS3041214	41617-001	8260Petroleum	Xylene, m-p	ND	ug/Kg	5	12/14/04	BELA	9.456
SMS3041214	41617-001	8260Petroleum	Xylene, o	68.532	ug/Kg	5	12/14/04	BELA	68.532
SMS3041214	41617-001	8260Petroleum	Xylenes, Total	68.532	ug/Kg	5	12/14/04	BELA	77.988
SMS3041214	41617-001	8260Petroleum	Dibromofluoromethane	107.0	%	5	12/14/04	BELA	107.0
SMS3041214	41617-001	8260Petroleum	Toluene-d8	107.3	%	5	12/14/04	BELA	107.3
SMS3041214	41617-001	8260Petroleum	4-Bromofluorobenzene	102.5	%	5	12/14/04	BELA	102.5
SMS3041214	41617-001	TPH as Gasoline - G	Gasoline	4129.012	ug/Kg	5	12/14/04	BELA	4129.012
SMS3041214	41617-001	TPH as Gasoline - G	Dibromofluoromethane	107.0	%	5	12/14/04	BELA	107.038
SMS3041214	41617-001	TPH as Gasoline - G	Toluene-d8	107.3	%	5	12/14/04	BELA	107.256
SMS3041214	41617-001	TPH as Gasoline - G	Bromofluorobenzene	102.5	%	5	12/14/04	BELA	102.475

Wk 12/15/04

not GAS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\1\DATA\M3041214\M3121410.D
 Acq On : 14 Dec 2004 2:17 pm
 Sample : 41617-001S1.00
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 14 14:56 2004

Vial: 9
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: M3S30930.RES

Quant Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Initial Calibration
 DataAcq Meth : 8260S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	12.33	168	91039	100.00	ng	-0.06
39) 1,4-Difluorobenzene	13.91	114	155828	100.00	ng	-0.08
54) Chlorobenzene-d5	18.51	117	147730	100.00	ng	-0.09
80) 1,4-Dichlorobenzene-d4	22.08	152	79742	100.00	ng	-0.09

System Monitoring Compounds

20) MTBE-d3	9.72	76	2395	0.00	ng	0.15
Spiked Amount 100.000	Range 56 - 139		Recovery =	0.00%	#	
35) Dibromofluoromethane	12.49	111	55720	107.04	ng	-0.07
Spiked Amount 100.000	Range 57 - 139		Recovery =	107.04%	#	
37) 1,2-Dichloroethane-d4	13.29	65	47801	91.12	ng	-0.05
Spiked Amount 100.000	Range 65 - 135		Recovery =	91.12%	#	
55) Toluene-d8	16.24	98	200154	107.26	ng	-0.08
Spiked Amount 100.000	Range 65 - 135		Recovery =	107.26%	#	
77) 4-Bromofluorobenzene	20.21	95	78380	102.47	ng	-0.08
Spiked Amount 100.000	Range 65 - 135		Recovery =	102.47%	#	

Target Compounds

					Qvalue
10) Acetone	8.15	58	3936m ⁹	52.57	ng
19) Carbon Disulfide	9.72	76	2395	1.29	ng
32) Methacrylonitrile	13.57	41	1381	2.15	ng
43) Benzene	13.54	78	1895m ⁸	0.88	ng
44) n-Heptane	13.56	43	2645	2.75	ng
48) Methylcyclohexane	14.75	98	8045	15.28	ng
52) 4-Methyl-2-Pentanone (MIBK	15.54	43	5657	6.72	ng
56) Toluene	16.36	92	5819	4.17	ng
59) 1,1,2-Trichloroethane	16.73	83	1512	2.92	ng
60) 2-Hexanone	16.75	43	8237	13.67	ng
66) Chlorobenzene	18.50	112	1135	0.72	ng
68) Ethyl Benzene	18.62	91	6059	2.26	ng
69) Xylene, m+p	18.74	106	9534	9.46	ng
70) Xylene, o	19.36	106	69899	68.53	ng
71) Styrene	19.36	104	2157	1.12	ng
74) Cyclohexanone	19.88	98	1595	15.48	ng
75) Isopropylbenzene	19.86	105	20066	7.32	ng
76) 1,1,2,2-Tetrachloroethane	19.92	83	5416	5.48	ng
78) 1,2,3-Trichloropropane	20.28	77	1415	4.06	ng
79) trans-1,4-Dichloro-2-butene	20.64	89	2346	4.14	ng
81) n-Propylbenzene	20.45	91	12103	3.84	ng
83) 1,3,5-Trimethylbenzene	20.65	105	237826	114.01	ng
84) 2-Chlorotoluene	20.65	91	22466	11.46	ng
85) 4-Chlorotoluene	20.65	91	22466	12.14	ng
86) tert-Butylbenzene	21.28	119	11520	5.52	ng
88) 1,2,4-Trimethylbenzene	21.28	105	71379	33.52	ng
89) sec-Butylbenzene	21.56	105	20026	6.91	ng
90) p-Isopropyltoluene	21.74	119	24135	10.43	ng
93) Benzyl Chloride	22.37	126	1025	3.71	ng
94) n-Butylbenzene	22.37	91	21990	10.32	ng
99) Naphthalene	26.68	128	30970	14.95	ng
100) 1,2,3-Trichlorobenzene	27.24	180	1965	3.01	ng
101) TPH-Gasoline	22.08	TIC	20038362m	4129.01	ng

(#) = qualifier out of range (m) = manual integration
 M3121410.D M3S30930.M Tue Dec 14 14:48:27 2004

BELA

Page 1

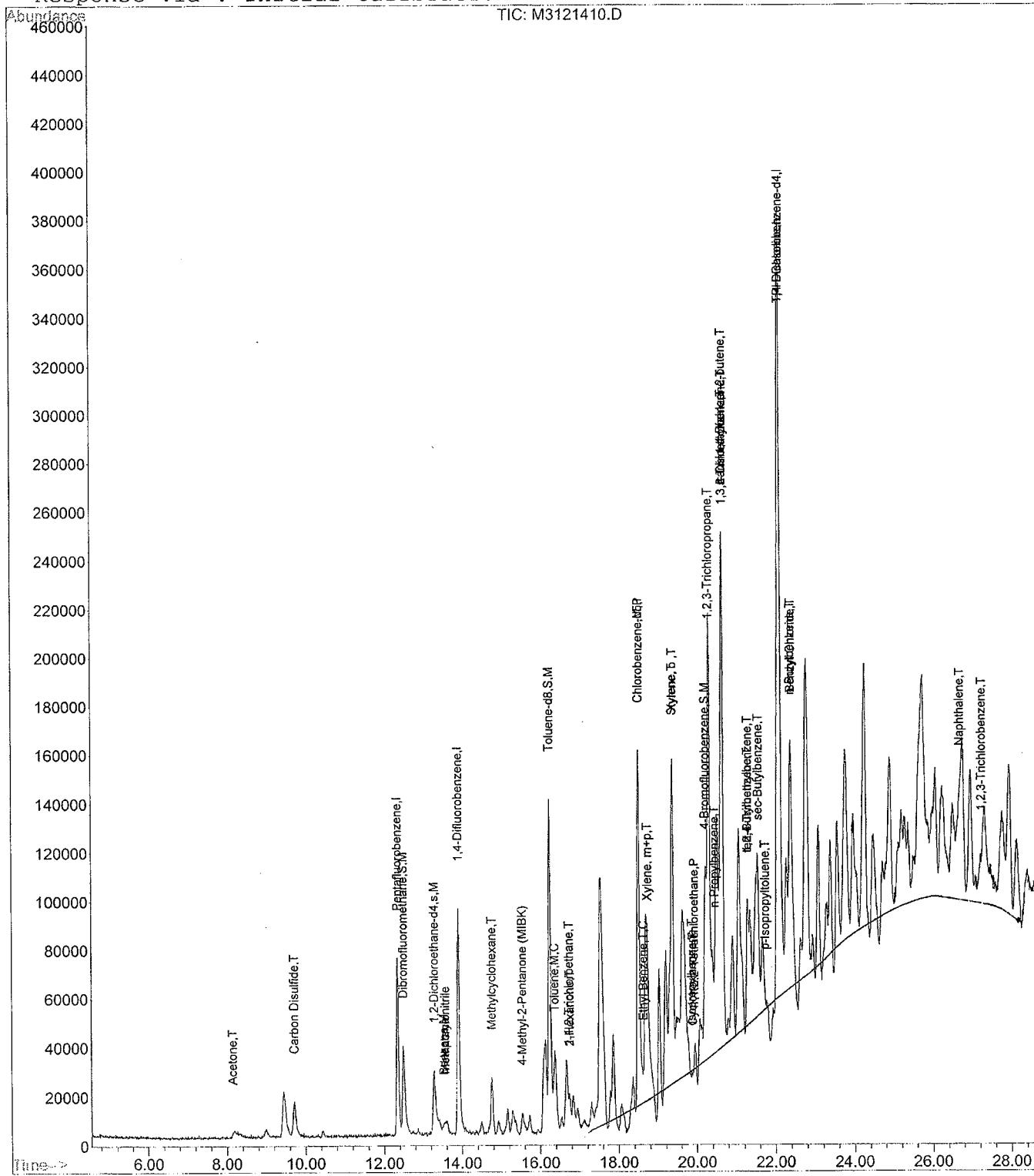
Quantitation Report

Data File : G:\HPCHEM\1\DATA\M3041214\M3121410.D
 Acq On : 14 Dec 2004 2:17 pm
 Sample : 41617-001S1.00
 Misc : 8260PET/GAS
 MS Integration Params: RTEINT.P
 Quant Time: Dec 14 14:56 2004

Vial: 9
 Operator: BELA
 Inst : VMS-03
 Multiplr: 1.00

Quant Results File: M3S30930.RES

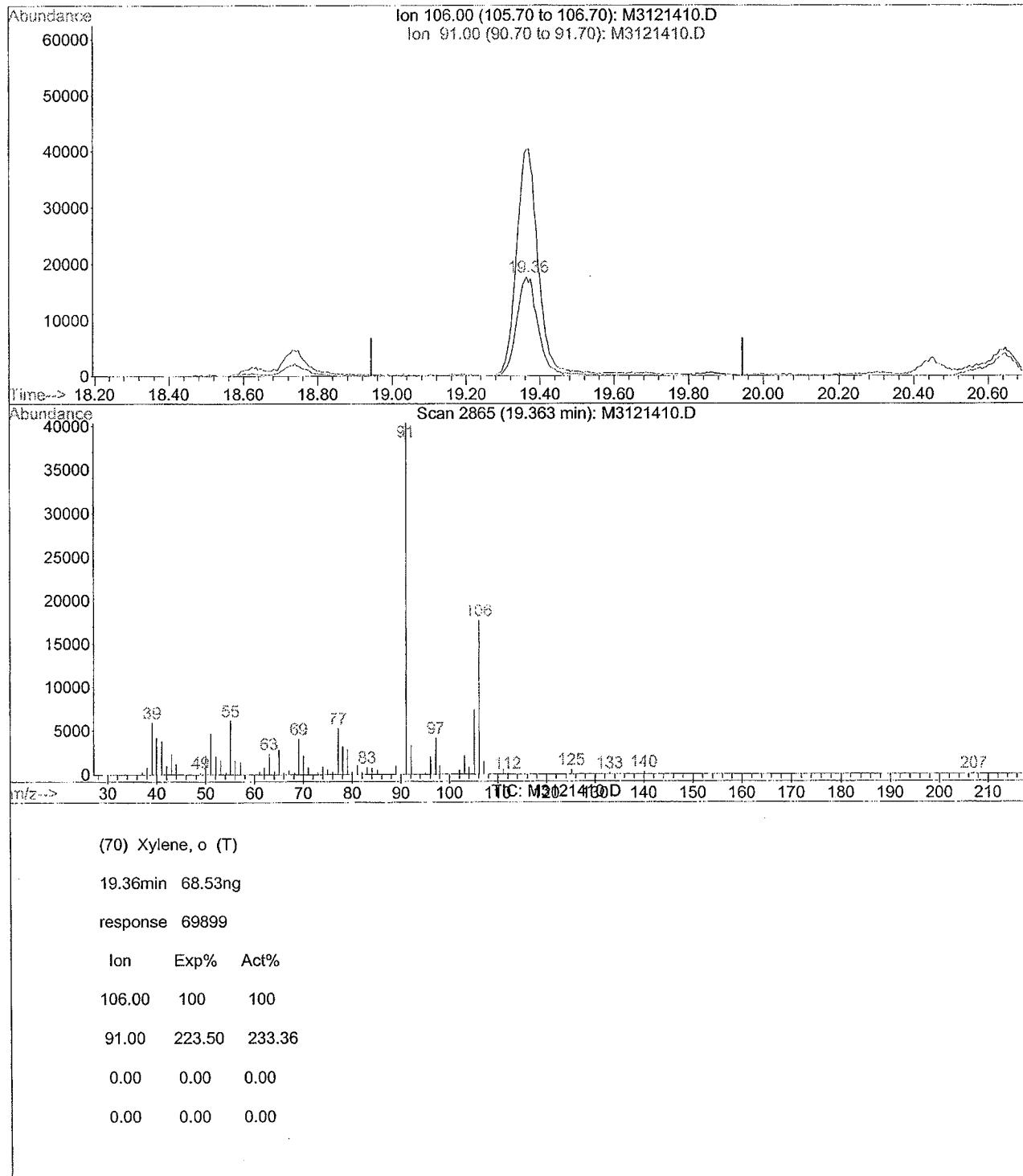
Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : G:\HPCHEM\1\DATA\M3041214\M3121410.D Vial: 9
 Acq On : 14 Dec 2004 2:17 pm Operator: BELA
 Sample : 41617-001S1.00 Inst : VMS-03
 Misc : 8260PET/GAS Multiplr: 1.00
 MS Integration Params: RTEINT.P Quant Results File: temp.res
 Quant Time: Dec 14 14:56 2004

Method : H:\HPCHEM\1\METHODS\M3S30930.M (RTE Integrator)
 Title : MS #3 EPA 8260B
 Last Update : Tue Oct 26 15:22:53 2004
 Response via : Multiple Level Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\2111004.D Vial: 11
Acq On : 12-14-04 12:05:01 PM Operator: JH
Sample : 41617-01@S1:250 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 14 12:58 2004 Quant Results File: D2111004.RES

Quant Method : L:\HPCHEM\2\METHODS\2111004.M (Chemstation Integrator)
Title : DRO calibration: Back column
Last Update : Wed Dec 01 14:27:53 2004
Response via : Initial Calibration
DataAcq Meth : D2111402.M

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

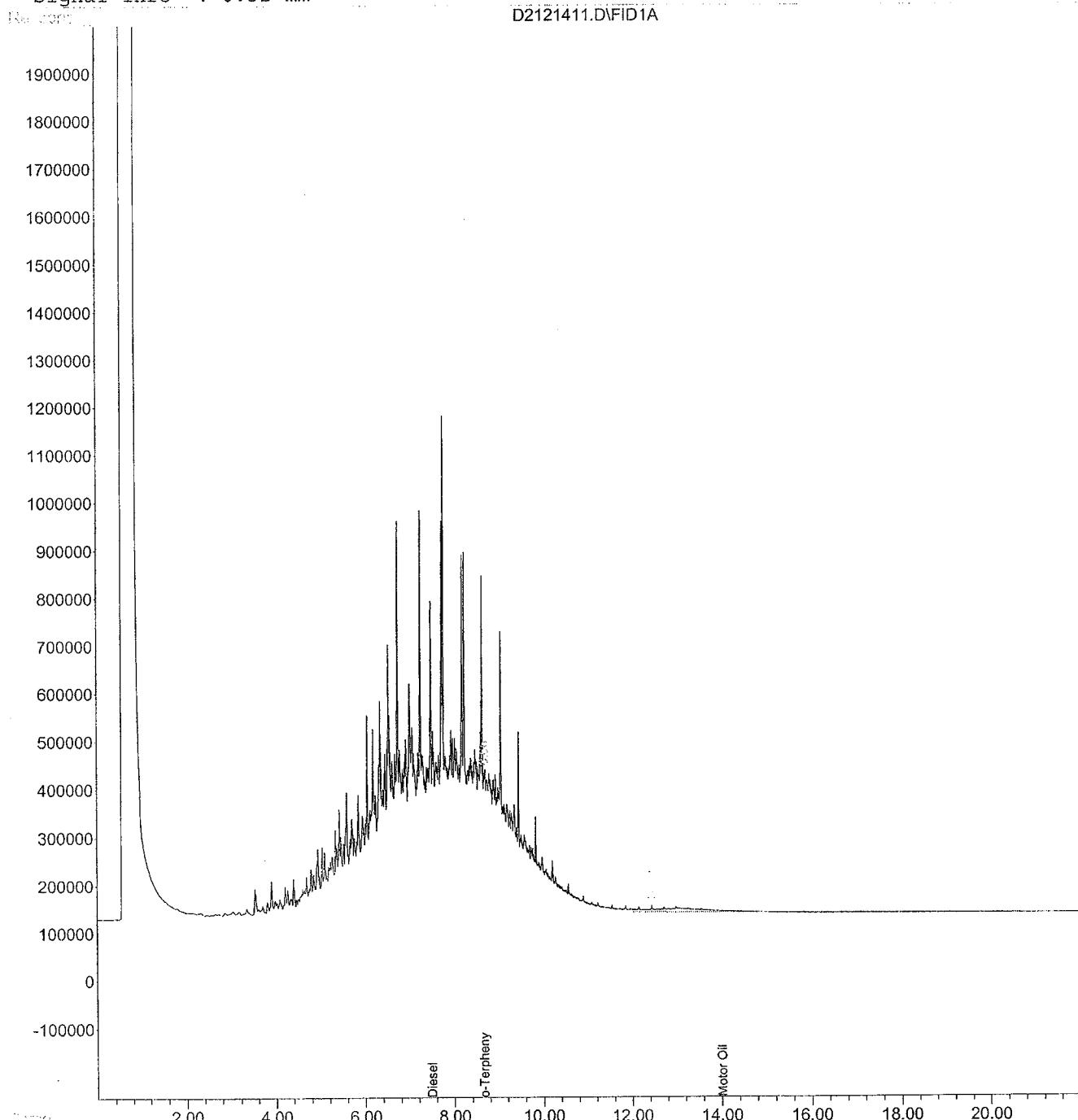
Compound	R.T.	Response	Conc	Units
<hr/>				
System Monitoring Compounds				
1) S,M o-Terphenyl	8.66	284538	0.244	ng m
Spiked Amount 75.000		Recovery	=	0.33%
<hr/>				
Target Compounds				
2) H Kerosene	0.00	0	N.D.	ng
3) H Mineral Spirits	0.00	0	N.D.	ng
4) H,M Diesel	7.50	826302232	771.853	ng
5) H Motor Oil	14.00	7361749	7.169	ng

Quantitation Report

Data File : C:\HPCHEM\2\DATA\2111004.D Vial: 11
Acq On : 12-14-04 12:05:01 PM Operator: JH
Sample : 41617-01@S1:250 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 14 12:58 2004 Quant Results File: D2111004.RES

Quant Method : L:\HPCHEM\2\METHODS\2111004.M (Chemstation Integrator)
Title : DRO calibration: Back column
Last Update : Wed Dec 01 14:27:53 2004
Response via : Single Level Calibration
DataAcq Meth : D2111402.M

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\2111004.D Vial: 12
Acq On : 12-14-04 12:33:33 PM Operator: JH
Sample : 41617-02@S1:250 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 14 12:59 2004 Quant Results File: D2111004.RES

Quant Method : L:\HPCHEM\2\METHODS\2111004.M (Chemstation Integrator)
Title : DRO calibration: Back column
Last Update : Wed Dec 01 14:27:53 2004
Response via : Initial Calibration
DataAcq Meth : D2111402.M

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
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System Monitoring Compounds

1) S,M o-Terphenyl	8.67	679915	0.583	ng m
Spiked Amount	75.000	Recovery	=	0.78%

Target Compounds

2) H Kerosene	0.00	0	N.D.	ng
3) H Mineral Spirits	0.00	0	N.D.	ng
4) H,M Diesel	7.50	790847472	738.735	ng
5) H Motor Oil	14.00	1827949	1.780	ng

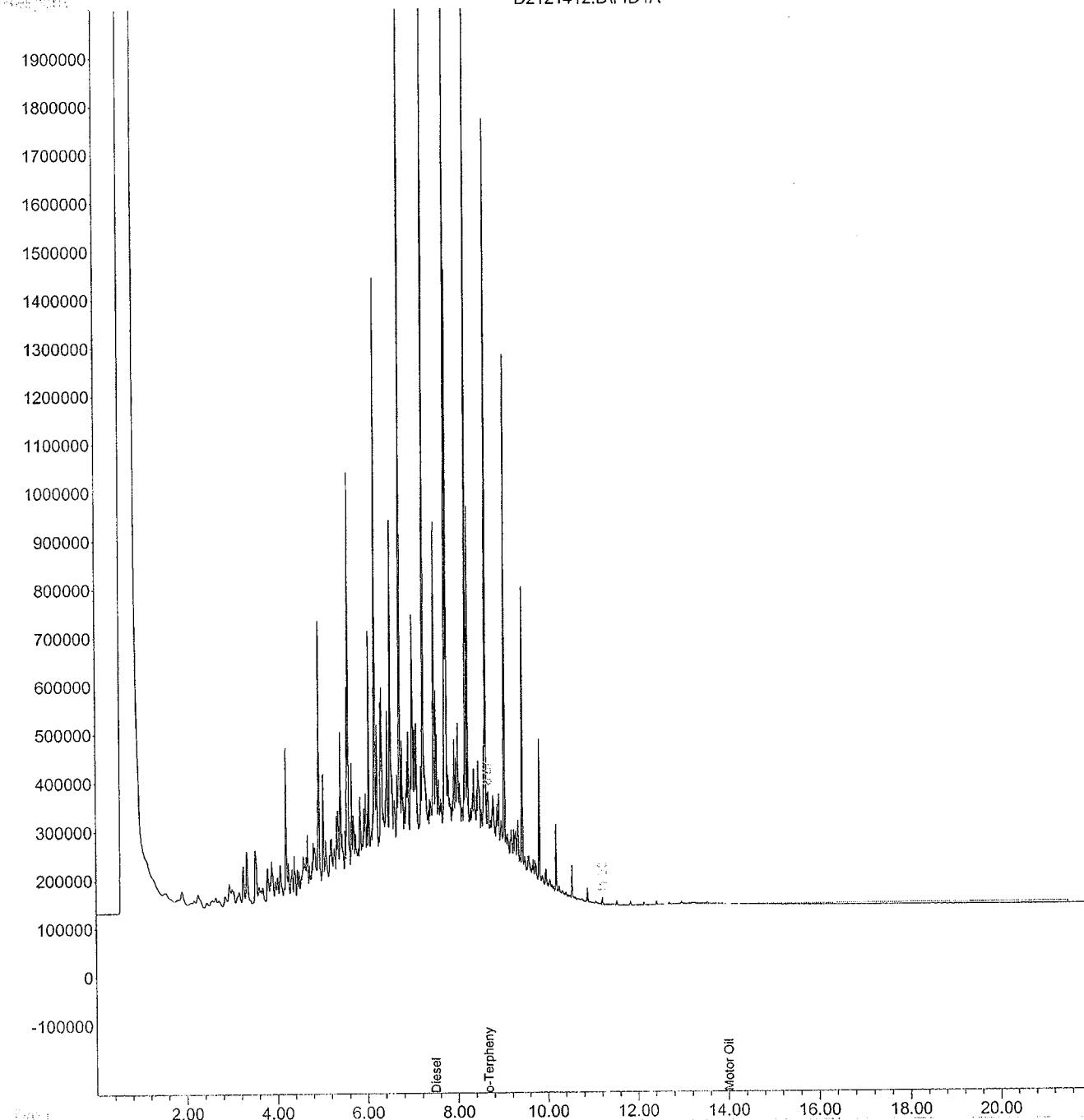
Quantitation Report

Data File : C:\HPCHEM\2\DATA\2111004.D Vial: 12
Acq On : 12-14-04 12:33:33 PM Operator: JH
Sample : 41617-02@S1:250 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 14 12:59 2004 Quant Results File: D2111004.RES

Quant Method : L:\HPCHEM\2\METHODS\2111004.M (Chemstation Integrator)
Title : DRO calibration: Back column
Last Update : Wed Dec 01 14:27:53 2004
Response via : Single Level Calibration
DataAcq Meth : D2111402.M

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

D2121412.D\FID1A



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\2111004.D Vial: 13
Acq On : 12-14-04 1:02:12 PM Operator: JH
Sample : 41617-03@S1:1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 14 13:58 2004 Quant Results File: D2111004.RES

Quant Method : L:\HPCHEM\2\METHODS\2111004.M (Chemstation Integrator)
Title : DRO calibration: Back column
Last Update : Wed Dec 01 14:27:53 2004
Response via : Initial Calibration
DataAcq Meth : D2111402.M

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

Compound	R.T.	Response	Conc	Units
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System Monitoring Compounds

1) S,M o-Terphenyl	8.64	86862161	74.435	ng
Spiked Amount	75.000	Recovery	=	99.25%

Target Compounds

2) H Kerosene	0.00	0	N.D.	ng
3) H Mineral Spirits	0.00	0	N.D.	ng
4) H,M Diesel	7.50	116866499	109.166	ng
5) H Motor Oil	14.00	189060851	184.121	ng

Quantitation Report

Data File : C:\HPCHEM\2\DATA\21214\2121413.D Vial: 13
Acq On : 12-14-04 1:02:12 PM Operator: JH
Sample : 41617-03@S1:1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 14 13:58 2004 Quant Results File: D2111004.RES

Quant Method : L:\HPCHEM\2\METHODS\2111004.M (Chemstation Integrator)
Title : DRO calibration: Back column
Last Update : Wed Dec 01 14:27:53 2004
Response via : Single Level Calibration
DataAcq Meth : D2111402.M

Volume Inj. : 1.0 uL
Signal Phase : HP-5
Signal Info : 0.32 mm

D2121413.D\FID1A

